List of Publications

Prof. Raghavendra Gadagkar

(Updated on 1st, June 2026)

(A) Books

4. **Gadagkar, R.** (2027). *The World of a Wasp: The Quest to Understand a Remarkable Insect Society.* Princeton University Press. (*Forthcoming*).

3. **Gadagkar, R. (**2021). *Experiments in Animal Behaviour : Cutting-Edge Research at Trifling Cost.* e-Books of the Indian Academy of Sciences. Indian Academy of Sciences, Bangalore. https://www.ias.ac.in/Publications/e-Books/Experiments_in_Animal_Behaviour

2. **Gadagkar, R.** (2001). *The Social Biology of Ropalidia marginata: Toward Understanding the Evolution of Eusociality.* Harvard University Press, Cambridge, Massachusetts, USA. (Extract Only) (Link)

1. **Gadagkar, R. (**1997). *Survival Strategies - Cooperation and Conflict in Animal Societies*. Harvard University Press, Cambridge, Massachusetts, USA and Universities Press, Hyderabad, India. (Complex) Chinese language edition, International Publishing Company Ltd., Taiwan (1999). Korean language edition, Purun Media Publishing Company (2001). Kannada translation. Kuvempu Bhashabharathi Pradhikara (2022). (Extract Only)

(B) ***Articles*** [including journal articles, general articles, book reviews, commentaries etc.]

419. **Gadagkar, R.,** 2026. Sociobiology—The next 50 years: the inevitable and the desirable. *Behavioral Ecology and Sociobiology*. 80(5):11-15. Excerpt from: Bakker, T.C.M. et al., 2026. Editorial: The future of evolutionary behavioral biology. *Behavioral Ecology and Sociobiology*. 80(5):1-63. *https://doi.org/10.1007/s00265-026-03732-6* **(PDF)**

418. **Gadagkar, R.,** 2026. We should not leave science only to the scientists! *Lignum Vitae*. 14, 58–63. **(PDF)**

417. **Gadagkar, R.,** 2025. You are how much you eat: caste and nutrition in the Indian paper wasp *Ropalidia marginata*. *Indian Journal of Entomology*. (Special Issue: Celebrating one hundred years of T N Ananthakrishnan. Eminent Entomologist, Biologist, Ecologist of India), 87: 11–25. https://doi.org/10.55446/IJE.2025.3425 **(PDF)**

416. Hölldobler, B. and Wilson, E. O. 2022. Resonance Classics, **with an Introducton by Raghavendra Gadagkar**. The Evolution of Communal Nest-Weaving in Ants: Steps That May Have Led to a Complicated Form of Cooperation in Weaver Ants Can be Inferred From Less Advanced Behavior

in Other Species. *American Scientist*. Vol. 71, No. 5, pp.490-499. Sepetmebr-October 1983. *Resonance - journal of science education* 27:1453–64. https://www.ias.ac.in/describe/article/reso/027/08/1453-1464 **(PDF)**

415. Brahma, A., and **Gadagkar, R.**, 2025. Social behavior: Ant, bee and wasp social evolution, in: *Encyclopedia of Animal Behaviour, 3rd Edition, (Reference Module in Life Sciences)*. Elsevier. https://doi.org/10.1016/B978-0-443-29068-8.00121-5 (Revised version). **(PDF)**

414. **Gadagkar, R.**, 2025. India's ethology has grown, but not to its full potential. *Mongabay-India*. https://india.mongabay.com/2025/08/indias-ethology-has-grown-but-not-to-its-full-potential-commentary/ **(PDF)**

413. Brahma, A., and Gadagkar, R., 2025. The origin and maintenance of division of labour in an Indian paper wasp. Philosophical Transactions of the Royal Society B: Biological Sciences 380, 20230269. https://doi.org/10.1098/rstb.2023.0269 **(PDF)**

412. **Gadagkar, R.,** 2022. The story of caste and nutrition in an Indian paper wasp: it all began with logistic regression analysis. *Journal of the Indian Statistical Association*, Special Issue on 75th Birth Anniversary of Prof. Anil Gore 60(2) 235–257. https://drive.google.com/file/d/1dbdccxSPMoDS0d4oexFRWM4-1R_JYvha **(PDF)**

411. **Gadagkar, R.,** 2025. Social behaviour of the Indian paper wasp *Ropalidia marginata*: a tribute to Mary Jane West-Eberhard. *Animal Behaviour*, in Special Issue: Tribute To W.G. Eberhard and M.J. West-Eberhard. 221, 122863. https://doi.org/10.1016/j.anbehav.2024.03.012 **(PDF)**

410. Kumar, R., (2024). **In conversation with "beste-der-besten" of Ethology and Evolution: Professor Raghavendra Gadagkar**. *Indian Entomologist*. https://www.indianentomologist.org/post/in-conversation-with-beste-der-besten-of-ethology-and-evolution-professor-raghavendra-gadagkar **(PDF)**

409. **Gadagkar, R. (Ed.)**, 2023. Celebrating the centenary of The Social Life among the Insects. *Journal of the Indian Institute of Science*, 103(4) 939-1150. https://link.springer.com/journal/41745/volumes-and-issues/103-4 **(PDF of the complete issue)**

408. Bang, A., Ranganath, H. A., and **Gadagkar, R.** (2024). A crazy ants' crazy form of reproduction: Causes and consequences. *Journal of Biosciences*, 49(1), 17. https://doi.org/10.1007/s12038-023-00404-9 **(PDF)**

407. **Gadagkar, R.,** 2024. Prologue - *The Painted Stork - Exploring Ecology and Conservation in India* by Abdul Jamil Urfi, *Pelagic* Publishing, London, pp. ix–xi. https://doi.org/10.53061/NIOF6501 **(PDF)**

406. **Gadagkar, R.,** 2022. Foreword - *Pakshi Jala by Shubha Navakanta Bhat*, IISc Press, Bangalore, pp. 6-7. **(PDF)**

405. **Gadagkar, R.,** 2022. Foreword - *On The Web With Spiders: A Handbook With Field Notes by Abhijeeth Bayani*, IISc Press, Bangalore, pp. 6-8 **(PDF)**

404. Gadagkar, R., 2023. An Indian Tribute to William Morton Wheeler. Journal of the Indian Institute of Science (Guest Editorial), 1–13. https://doi.org/10.1007/s41745-023-00416-2 **(PDF)**.

403. Sharma, N., and **Gadagkar, R.**, 2023. Spatial organization of collective food distribution in a paper wasp society. bioRxiv. 2023.10.13.562279. https://doi.org/10.1101/2023.10.13.562279 (**PDF**, Supporting Information).

402. **Gadagkar, R.**, 2023. Is male reproduction in humans more egalitarian by mammalian standards? The Hindu, 10th June. https://www.thehindu.com/sci-tech/science/human-reproductive-inequality-sexual-selection-pnas-study/article66950451.ece (PDF)

401. Unnikrishnan, S., and **Gadagkar, R.**, 2023. The Evolution of Eusociality: Insights From Comparing Two Indian Paper Wasp Species. *Indian Journal of Entomology.* https://doi.org/10.55446/IJE.2023.1220 (PDF)

400. **Gadagkar, R.**, 2023. More Fun Than Fun: Science Is Impoverished Without Its Tales. *The Wire Science*, 29th March. https://science.thewire.in/the-sciences/science-history-knowledge/ (PDF)

399. **Gadagkar, R.**, 2023. In scholarly peer-review, discard bath water, keep baby. *The Hindu*, Bangalore, 11th February. https://www.thehindu.com/opinion/op-ed/in-scholarly-peer-review-discard-bath-water-keep-baby/article66494814.ece (PDF)

398. **Gadagkar, R.**, 2022. More Fun Than Fun: Is Evolutionary Medicine Coming of Age? The Wire Science, 30th November. https://science.thewire.in/the-sciences/evolutionary-medicine-physiology-watve/ (PDF)

397. **Gadagkar, R.**, 2022. More Fun Than Fun: When Natural Selection Makes Us Less Fit. *The Wire Science*, 26th October. https://science.thewire.in/the-sciences/natural-selection-fitness-evolutionary-medicine/ (PDF)

396. Shukla, S.P., and **Gadagkar, R.**, 2022. Surplus feeding reverses worker ovarian suppression and disrupts social cohesion in queen-right wasp colonies. Indian Journal of Entomology. 85(1), 28–34. https://doi.org/10.55446/IJE.2022.981 (PDF)

395. **Gadagkar, R. (**2022). An inordinate fondness for wasps - A Review of - *Endless Forms: The Secret World of Wasps* by Seiran Sumner, Harper Collins, 2022. *Nature Ecology & Evolution*, 1–1. https://doi.org/10.1038/s41559-022-01822-y (PDF)

394. **Gadagkar, R. (**2022). More Fun Than Fun: Strife in the Harmonious World of Honey Bees, Part 2. *The Wire Science*, 29 June.

https://science.thewire.in/environment/strife-harmonious-world-honey-bees-2/ **(PDF)**

393. **Gadagkar, R. (**2022). More Fun Than Fun: Strife in the Harmonious World of Honey Bees, Part 1. *The Wire Science*. 25 May. https://science.thewire.in/the-sciences/understanding-strife-honey-bee-society/ (PDF)

392. **Gadagkar, R. (**2022). Bibliophilia: The Father of Modern Ecology. *Resonance - Journal of Science Education,* 27, 839–853. https://www.ias.ac.in/article/fulltext/reso/027/05/0839-0853 (PDF)

391. **Gadagkar, R. (**2022). More Fun Than Fun: The Fly in The Room. *The Wire Science.* 27 April. https://science.thewire.in/the-sciences/to-know-a-fly-vincent-dethier/ **(PDF)**

390. **Gadagkar, R. (**2022). Parallel Histories - A Review of - *A Tale of Two Viruses: Parallels in the Research Trajectories of Tumor and Bacterial Viruses* by Neeraja Sankaran. University of Pittsburgh Press. *Inference*, 7, 1. https://inference-review.com/article/parallel-histories https://doi.org/10.37282/991819.22.23 (PDF)

389. **Gadagkar, R. (**2022). More Fun Than Fun: The Wasp Who Would Be Queen. *The Wire Science*. 30 March. https://science.thewire.in/the-sciences/ropalidia-marginata-primitive-eusocial-species-queen-succession/ (PDF)

388. **Gadagkar, R. (**2022). More Fun Than Fun: What Can Coucals Teach Us About Parental Care? *The Wire Science*. 23 February. https://science.thewire.in/the-sciences/black-coucal-altricial-sex-role-reversal-male-female-parenting/ (PDF)

387. **Gadagkar, R. (**2022). More Fun Than Fun: E.O. Wilson's Love of Ants – and All Things Living. *The Wire Science,* 26 January. https://science.thewire.in/environment/remembering-edward-osborne-wilson-naturalist-raghavendra-gadagkar/ (PDF)

387a. **Gadagkar, R.,** 2022. *EO Wilson's Love of Ants - and All Things Living*. Resonance - Journal of Science Education 27 (8), 1289–1305. https://www.ias.ac.in/article/fulltext/reso/027/08/1289-1305 **(PDF)**

386. Sharma, N., **Gadagkar, R.**, and Pinter-Wollmann, N. (2022). A reproductive heir has a central position in multilayer social Q4 networks of paper wasps. *Animal Behaviour,* 185, 21-36. https://doi.org/10.1016/j.anbehav.2021.12.011 **(PDF)** (Supporting Information)

385. **Gadagkar, R. (**2021). More Fun Than Fun: The Delicate Truce Between Cleaner Fish and Their Clients. *The Wire Science*, 29 December. https://science.thewire.in/the-sciences/cleaner-fish-mutualism-cooperation-altruism-theories-redouan-bshary/ **(PDF)**

384. Gadagkar, R., Sharma, N. and Pinter-Wollmann, N. (2022). Queen Succession in the Indian Paper Wasp *Ropalidia marginata*: on the trail of the potential queen. *Journal of Biosciences,* 47, 18. https://doi.org/10.1007/s12038-021-00250-7 **(PDF)**

383. **Gadagkar, R. (**2021). Response - Unfolding science from the laboratory to laypersons in their native language. *Current Science, Correspondence* 121, 1142. https://www.currentscience.ac.in/Volumes/121/09/1142.pdf **(PDF)**

382. **Gadagkar, R. (**2021). More Fun Than Fun: Beetles Lead Complex Social Lives in Dead Trees. *The Wire Science*. 24 November. https://science.thewire.in/the-sciences/beetles-lead-complex-social-lives-in-dead-trees/ **(PDF)**

381. **Gadagkar, R. (**2021). More Fun Than Fun: Decoding the Babbles of Crickets, Birds and Undergrads. *The Wire Science*. 27 October. https://science.thewire.in/the-sciences/decoding-babbles-crickets-birds-manjari-jain/ **(PDF)**

380. **Gadagkar, R. (**2021). More Fun Than Fun: What Do Dogs (and Other Animals) Do All Day and All Night? *The Wire Science*. 13 October. https://science.thewire.in/the-sciences/what-do-dogs-and-other-animals-do-all-day-and-all-night/ (PDF)

380a. **गदगकर, राघवेन्द्र**, २०२२. कुत्ते और अन्य जीव क्या करते हैं रात दिन? साइकल ४:६, २०-२५ Hindi translation. **(PDF)**

379. **Gadagkar, R. (**2021). The Many Ways of Doing a PhD. Indian Academy of Sciences - *Confluence*. http://confluence.ias.ac.in/the-many-ways-of-doing-a-phd/ **(PDF)**

378. **Gadagkar, R. (**2021). More Fun Than Fun: The Exquisite Wax Palace of the Honey Bees. *The Wire Science*, 29 September. https://science.thewire.in/the-sciences/wax-palaces-honey-bees-self-organisation-stigmergy/ **(PDF)**

377. Krishnan, J.U., Brahma, A., Chavan, S.K. and **Gadagkar, R.** (2021). Nutrition induced direct fitness for workers in a primitively eusocial wasp. *Insectes Sociaux,* 68, 319-325. https://doi.org/10.1007/s00040-021-00835-3https://rdcu.be/cx8ld **(PDF)** (Supporting Information 1) (Supporting Information 2)

376. **Gadagkar, R. (**2021). More Fun Than Fun: The Underground Architects and Engineers of the Ant World. *The Wire Science*, 15 September. https://science.thewire.in/the-sciences/fire-ant-nest-underground-architecture-walter-tschinkel/ **(PDF)**

375. **Gadagkar, R. (**2021). More Fun Than Fun: Weaving with Silk, the Ant Way. *The Wire Science,* 1 September. https://science.thewire.in/the-sciences/weaver-ants-silk-larvae-kin-selection-altruism/ **(PDF)**

374. **Gadagkar, R. (**2021). Prof. Dr. Raghavendra Gadagkar, India - Alumni Uni Würzburg - 1000 Careers One Story. *Teilnehmer-Portraits.* https://www.uni-wuerzburg.de/alumni/international/forum-wandel-mitgestalten-2021/teilnehmer-portraits/prof-dr-raghavendra-gadagkar-india/ Interview describing (scientific) work/research, aspect of a sustainable life, work and research is especially relevant for and why, wish for the future (and why) with this regard, how Corona crisis affecting every-day life and work. **(PDF)**

373. **Gadagkar, R. (**2021). Guest Editorial: Communicating science to the general public: role of scientists and science writers. *Current Science*, 121, 463–464. https://www.currentscience.ac.in/Volumes/121/04/0463.pdf **(PDF)**

372. **Gadagkar, R. (**2021). More Fun Than Fun: Plants Also Have Their Social Lives and Family Disputes. *The Wire Science*. 18 August. https://science.thewire.in/the-sciences/eusocial-fern-suzanne-batra-endosperm-frugal-science-raghavendra-gadagkar/ **(PDF)**

371. **Gadagkar, R. (**2021). More Fun Than Fun: Evolution on Islands in Water, in the Sky and Elsewhere. *The Wire Science*, 4 August. https://science.thewire.in/the-sciences/island-biogeography-shola-sky-islands-evolution-raghavendra-gadagkar/ (PDF)

370. **Gadagkar, R. (**2021). More Fun Than Fun : The South Asian Greater Banded Hornet Waits to be Studied. *The Wire Science*, 21 July. https://science.thewire.in/the-sciences/greater-banded-hornets-vespa-tropica-miriam-lehrer-hema-somanathan/ (PDF)

369. **Gadagkar, R. (**2021). More Fun Than Fun : David Wake, Salamanders and the Origin and Loss of Species. *The Wire Science*, 7 July. https://science.thewire.in/the-sciences/david-wake-salamanders-ensatina- complex-origin-loss-species-raghavendra-gadagkar/ (PDF)

368. **Gadagkar, R. (**2021). More Fun Than Fun : Scientists Must Write for the People. *The Wire Science*, 23 June. https://science.thewire.in/the-sciences/scientists-science-writing-writers-knowledge-producers-imagination/ (PDF)

367. **Gadagkar, R. (**2021). More Fun Than Fun: Not Just Us – Dancing Bees Need a Good Night's Sleep, Too. *The Wire Science*, 9 June. https://science.thewire.in/the-sciences/honey-bees-dance-language-sleep-deprivation-barrett-klein-simple-research/ (PDF)

366. **Gadagkar, R. (**2021). More Fun Than Fun: Chasing Wasps on a Bicycle – and Getting a PhD. *The Wire Science*, 26 May. https://science.thewire.in/the-sciences/more-fun-than-fun-chasing-wasps-on-a-bicycle-and-getting-a-phd/ (PDF)

365. **Gadagkar, R. (**2021). More Fun Than Fun: The Joys and Burdens of Our Heroes. *The Wire Science*, 12 May. https://science.thewire.in/the-sciences/james-watson-konrad-lorentz-contributions-biology-social-justice-raghavendra-gadagkar/ (PDF)

364. Krishnan, A. (2021). Science on a shoestring budget: Interview with **Raghavendra Gadagkar.** *Mongabay-India*, 4 May. https://india.mongabay.com/2021/05/interview-science-on-a-shoestring-budget (PDF)
Also published in *The New Leam*, 19 May 2021. https://www.thenewleam.com/2021/05/science-on-a-shoestring-budget (PDF)

363. **Gadagkar, R. (**2021). More Fun Than Fun: Chandru's Inordinate Fondness for Insects. *The Wire Science*, 28 April 2021. https://science.thewire.in/the-sciences/krishnappa-chandrashekara-insect-population-diversity-tropics (PDF) (Read it in Kannada) (Listen to it as a Kannada Podcast)

362. **Gadagkar, R. (**2021). Foreword - *India on My Mind : Reflections on Politics, Democracy & History* by Uday Balakrishnan. Centre for Policy Studies, Visakhapatnam, pp. 12–15. (PDF)

361. **Gadagkar, R. (**2021). More Fun Than Fun: My Favourite Lizard Stories. *The Wire Science*, 14 April. https://science.thewire.in/environment/raghavendra-gadagkar-lizard-stories/ (PDF) (Read it in Kannada) (Listen to it as a Kannada Podcast)

360. **Gadagkar, R. (**2021). More Fun Than Fun: How Do Insect Societies Deal With Infectious Diseases. *The Wire Science*, 31 March. https://science.thewire.in/the-sciences/insect-societies-infectious-diseases-raghavendra-gadagkar/ (PDF) (Read it in Kannada) (Listen to it as a Kannada Podcast)

359. **Gadagkar, R. (**2021). More Fun Than Fun: Learning How Fruit Flies Disperse – From a Tabletop. *The Wire Science*, 17 March https://science.thewire.in/the-sciences/humans-animals-plants-dispersal-fruit-flies-elegant-experiment-iiser-pune/ (PDF) (Read it in Kannada) (Listen to it as a Kannada Podcast)

358. **Gadagkar, R. (**2021). More Fun Than Fun: The Unlikely Stardom of the Naked Mole Rat. *The Wire Science*, 3 March. https://science.thewire.in/the-sciences/more-fun-than-fun-naked-mole-rat-captures-fancy-of-scientists-and-artists-alike/ (PDF)

357. **Gadagkar, R. (**2021). Professor SM Chitre - A Tribute. *Khagol Vishwa. Prof. Chitre Special*, p. 4. (PDF)

356. **Gadagkar, R. (**2021). More Fun Than Fun: What Can We Learn from Insect Societies? *The Wire Science*, February 17. https://science.thewire.in/the-sciences/insect-societies-collective-intelligence-democratic-decision-making-thomas-seeley/ (PDF)

355. **Gadagkar, R. (**2021). More Fun Than Fun: Why Do Animals Sport Bright Colours? *The Wire Science,* February 3. https://science.thewire.in/the-sciences/animals-bright-colours-evolutionary-biology-batesian-mimicry-uropeltidae-handling-times/ (PDF)

354. **Gadagkar, R. (**2021). More Fun Than Fun: How Do Animals Recognise their Kin? *The Wire Science*, 20 January. https://science.thewire.in/the-sciences/kin-selection-cooperation-haldane nestmates-experiment-biodiversity/ (PDF) (Read it in Kannada) (Listen to it as a Kannada Podcast)

353. **Gadagkar, R. (**2021). How to Design Experiments in Animal Behaviour 16. Cutting-Edge Research at Trifling Cost. *Resonance - journal of science education,* 26(1), 105-126. https://doi.org/10.1007/s12045-020-1108-6 (PDF)

352. Unnikrishnan, S. and **Gadagkar, R.** (2021). Dominance behaviour and division of labour in the tropical primitively eusocial wasp *Ropalidia cyathiformis*. *Insectes Sociaux, 68,* 123-132. https://doi.org/10.1007/s00040-020-00803-3 (PDF) (Supporting Information.)
See also: Römer, D., 2021. Interview with a Social Insect Scientist: Sruthi Unnikrishnan. insectessociaux.

351. **Gadagkar, R. (**2021). Foreword. In: *Encyclopedia of Social Insects*. (Ed.) C.K. Starr, Springer Nature Switzerland AG. pp. v-vii. (PDF)

350. **Gadagkar, R. (**2021). *Ropalidia*. In: *Encyclopedia of Social Insects.* (Ed.) C.K. Starr, Springer Nature India Private Limited, pp.1-11 (PDF)

349. **Gadagkar, R. (**2021). More Fun Than Fun: Battles of the Sexes Can Now Be Made to Order - or Vanish. *The Wire Science*. 6 January. https://science.thewire.in/the-sciences/sexual-reproduction-natural-selection-competition-ng-prasad-raghavendra-gadagkar/ (PDF)

348. **Gadagkar, R. (**2020). More Fun Than Fun: The Marvelous World of Outsourcing Parenting Duties. *The Wire Science*. 23 December. https://science.thewire.in/environment/cuckoos-black-headed-duck-outsource-parenting-obligate-brood-parasite-altricial-precocial-climate-change/ (PDF) (Read it in Kannada) (Listen to it as a Kannada Podcast)

347. **Gadagkar, R. (**2020). More Fun Than Fun: In the Wild, There's More Than One Way to Find a Mate. *The Wire Science*. 9 December. https://science.thewire.in/the-sciences/alternative-reproductive-tactics-madhav-gadgil-ces-iisc-tree-crickets-courtship-predation-risk/ (PDF)

346. **Gadagkar, R. (**2020). More Fun Than Fun: Experienced Ants Lead and Teach, Naïve Ants Follow and Learn. *The Wire Science*. 25 November. https://science.thewire.in/the-sciences/ants-intelligence-tandem-running-gamergate-sumana-annagiri-teaching-opportunities/ (PDF) (Read it in Kannada) (Listen to it as a Kannada Podcast)

345. **Gadagkar, R. (**2020). More Fun Than Fun: An Ode To Grandmothers and Their Grandmotherly Wisdom. *The Wire Science*. 11 November. https://science.thewire.in/the-sciences/evolution-menopause-reproduction-grandmother-hypothesis-growing-old/ (PDF) (Read it in Kannada) (Listen to it as a Kannada Podcast)

344. **Gadagkar, R. (**2020). How to Design Experiments in Animal Behaviour 15. Why do Parents and Offspring Quarrel? *Resonance - journal of science education,* 25(11), 1595-1629. doi: 10.1007/s12045-020-1061-4 https://www.ias.ac.in/describe/article/reso/025/11/1595-1629 (PDF)

343. **Gadagkar, R. (**2020). Science can be more fun than fun*. i wonder….* *Rediscovering School Science* (Azim Premji University), Issue 5, October 2020, 83-84. https://azimpremjiuniversity.edu.in/SitePages/resources-iwonder-issue-5.aspx (PDF)

342. **Gadagkar, R. (**2020). More Fun Than Fun: The Smart Animals That Helped Scientists Demystify Altruism. *The Wire Science* .28 October. https://science.thewire.in/the-sciences/altruism-animal-kingdom-reciprocity-animal-cognition/ (PDF) (Read it in Kannada) (Listen to it as a Kannada Podcast)

341. **Gadagkar, R. (**2020). More Fun Than Fun: Where the Worlds of Science and Magic Collide. *The Wire Science*. 14 October. https://science.thewire.in/the-sciences/magic-fmri-response-bees-wasps-deception-ethology/ (PDF) (Read it in Kannada) (Listen to it as a Kannada Podcast)

340. **Gadagkar, R. (**2020). More Fun Than Fun: Dung Beetles, the Milky Way and the Marvels of Animal Navigation. *The Wire Science.*30 September*.* https://science.thewire.in/the-sciences/janaarime-podcast-dung-beetles-navigation-raghavendra-gadagkar/ (PDF)

339. **Gadagkar, R. (**2020). More Fun Than Fun: A Story of Stephen Fry, Honey Bees, Greek Myths - and Science. *The Wire Science*. 16 September. https://science.thewire.in/the-sciences/more-fun-than-fun-science-stories-raghavendra-gadagkar/ (PDF) (Read it in Kannada) (Listen to it as a Kannada Podcast)

338. **Gadagkar, R. (**2020). How to Design Experiments in Animal Behaviour 14. Cuckoos Lay Their Eggs in Others' Nests, But Why Do the Hosts Get Fooled? *Resonance - journal of science education,* 25(10), 1419-1455. https://doi.org/10.1007/s12045-020-1061-4 https://www.ias.ac.in/describe/article/reso/025/10/1419-1455 (PDF)

337. **Gadagkar, R. (**2020). How to Design Experiments in Animal Behaviour 13. Harmless Snakes Mimic Venomous Snakes to Avoid Predation, But Why Don't They Do Their Best? *Resonance - journal of science education,* 25(7), 1015-1044. https://doi.org/10.1007/s12045-020-1016-9 https://www.ias.ac.in/describe/article/reso/025/07/1015-1044 (PDF)

336. **Gadagkar, R. (**2020). How to Design Experiments in Animal Behaviour 12. Male Frogs Sing for Sex but Why Don't They Do Their Best? *Resonance - journal of science education,* 25(6),817-838. https://doi.org/10.1007/s12045-020-0998-7 https://www.ias.ac.in/describe/article/reso/025/06/0817-0838 (PDF)

335. **Gadagkar, R. (**2020). A Review of - *Why Trust Science*? by Naomi Oreskes. Princeton University Press, Princeton and Oxford (2019). *Current Science*, 118 (9), 1464-1466. https://www.currentscience.ac.in/Volumes/118/09/1464.pdf (PDF)

334. Unnikrishnan, S. and **Gadagkar, R.** (2020). The effect of age on non-reproductive division of labour in the tropical primitively eusocial wasp, *Ropalidia cyathiformis*. *The International Journal of Developmental Biology*, 64, 257-263. https://doi.org/10/1387/ijdb/190213su (PDF)

333. **Gadagkar, R. (**2020). How to Design Experiments in Animal Behaviour: 11. Fighting Fish – Does Experience Matter? *Resonance– Journal of Science Education*, 25(2). 269-296. https://doi.org/10/1007/s12045-020-0942-x (PDF)

332. **Gadagkar, R. (**2020). Cooperation in Social Insects. In: *Encyclopedia of Evolutionary Psychological Science.* (Eds.) Shackelford, T. K. and Weekes-Shackelford, V. A., Cham: Springer International Publishing, pp.1-9. (PDF)

331. **Gadagkar, R. (**2020). How to Design Experiments in Animal Behaviour: 10. Why Do Wasps Fight? Part 2. *Resonance– Journal of Science Education*, 25(1), 111-131. https://doi.org/10/1007/s12045-019-0925-y (PDF)

330. **Gadagkar, R. (**2019). How to Design Experiments in Animal Behaviour: 9. Why Do Wasps Fight? Part 1. *Resonance– Journal of Science Education*, 24 (12), 1413-1426. https://www.ias.ac.in/article/fulltext/reso/024/12/1413-1426 (PDF)

329. **Gadagkar, R. (**2019). How to Design Experiments in Animal Behaviour: 8. How Do Wasps Decide Who Would Be the Queen? Part 2*. Resonance– Journal of Science Education,* 24 (11),1287-1310. https://doi.org/10.1007/s12045-019-0895-0 (PDF)

328. **Gadagkar, R. (**2019). How to Design Experiments in Animal Behaviour: 7. How Do Wasps Decide Who Would Be the Queen? Part 1*. Resonance – Journal of Science Education,* 24 (10),1087-1107. https://doi.org/10.1007/s12045-019-0878-1 (PDF)

327. **Gadagkar, R. (**2019). How to Design Experiments in Animal Behaviour: 6. Why are Male Wasps Lazy? *Resonance– Journal of Science Education,* 24 (9), 995-1014*.* https://doi.org/10.1007/s12045-019-0866-5 (PDF)

326. **Gadagkar, R**., Gordon, D, Keller, L., Michod, R., Queller, D., Robinson, G.E., Strassmann, J.E. and West-Eberhard, M.J. (2019). Insights and opportunities in insect social behavior. *Current Opinion in Insect Science*, 34, ix-xx. https://doi.org/10.1016/j.cois.2019.08.009 (PDF)

325. Sharma, N. and **Gadagkar, R.** (2019). A place for everything and everything in its place: spatial organization of individuals on nests of the primitively eusocial wasp *Ropalidia marginata*. *Proceedings of the Royal Society, B*. 286, 20191212. http://dx.doi.org/10.1098/rspb.2019.1212 (PDF) (Supporting Information 1.) (Supporting Information 2.)

324. **Gadagkar, R. (**2019). How to Design Experiments in Animal Behaviour: 5. How Do Ants Estimate Distance Walked? *Resonance– Journal of Science Education* 24 (8), 875-889. https://doi.org/10.1007/s12045-019-0850-0 (PDF)

323. **Gadagkar, R. (**2019). Half a Century of Worship at "Tata's Temple of Science". *Connect – Indian Institute of Science*, 6(4), 16-19. https://connect.iisc.ac.in/2019/12/half-a-century-of-workship-at-tatas-temple-of-science/ (PDF)

323a. **Gadagkar, R. (**2020). Half a Century of Worship at "Tata's Temple of Science". *Resonance – journal of science education,* 25 (5), 727-733. (Reproduced with permission from *Connect*, above) https://www.ias.ac.in/article/fulltext/reso/025/05/0727-0733 (PDF) Kannada version: R. Sharma. https://www.ejnana.com/variety/worship-at-temple-of-science/

322. **Gadagkar, R. (**2019). How to Design Experiments in Animal Behaviour: 4. How Do Bees Estimate the Distance Flown? *Resonance– Journal of Science Education,*24 (7),741-753. https://doi.org/10.1007/s12045-019-0836-y (PDF)

321. **Gadagkar, R. (**2019). Democratizing Science and Redefining Education – A Review of - *Cities and Canopies: Trees in Indian Cities* by H. Nagendra and S. Mundoli, Penguin-Viking (2019*). Resonance– Journal of Science Education,* 24 (7), 771-774. https://doi.org/10.1007/s12045-019-0839-8 (PDF)

320. Brahma, A., Mandal, S. and **Gadagkar, R.** (2019). To leave or to stay: direct fitness through natural nest foundation in a primitively eusocial wasp. *Insectes Sociaux,* 66, 335-342. http://doi.org/10.10007/s00040-019-00702-2 (PDF) (Supporting Information)

319. Jain, A. and **Gadagkar, R.** (2019). The secret society of the paper wasp (Q&A). *Fountain Ink*, 8 (6), 88-105. https://fountainink.in/qna/the-secret-society-of-the-paper-wasp (PDF)

318. **Gadagkar, R. (**2018). How to Design Experiments in Animal Behaviour. 3. How do Ants Find the Shortest Path? *Resonance– Journal of Science Education,* 23 (11), 1243-1257. (PDF)

317. **Gadagkar, R. (**2018). How to Design Experiments in Animal Behaviour. 2. Do Bees Have Colour Vision? *Resonance– Journal of Science Education*, 23 (10), 1101-1106. (PDF)

316. **Gadagkar, R. (**2018). What Do Ethologists Wish to Know ? (Article-in-a-Box). *Resonance– Journal of Science Education*, 23 (8), 841-843. (PDF)

315. **Gadagkar, R. (**2018). How to Design Experiments in Animal Behaviour. 1. How Wasps Find Their Nests. *Resonance– Journal of Science Education,* 23 (8), 871-884. (PDF)

314. Miller S.E., Bluher S.E., Bell E., Cini A., da Silva R.C., de Souza A.R., Gandia K.M., Jandt J., Loope K., Prato A., Pruitt J.N., Rankin D., Rankin E., Southon R.J., Uy F.M.K., Weiner S., Wright C.M., Downing H., **Gadagkar, R.**, Lorenzi M.C., Rusina L., Sumner S., Tibbetts E.A., Toth A., and Sheehan M.J. WASPnest: A worldwide assessment of social Polistine nesting behavior. Ecology 99:10. pp.2405. 2018. (http://doi.org/10.1002/ecy.2448) (PDF) Supporting Information 1: Data, 2: Metadata.

313. Chakraborty, S., Shukla, S. P., ArunKumar, K. P., Nagaraju, J. and **Gadagkar, R.** (2018). Genetic relatedness does not predict the queen's successors in the primitively eusocial wasp*, Ropalidia marginata. Journal of Genetics,* 97 (2), June, 429-438. https://doi.org/10.1007/s12041-018-0926-8 (PDF) (Supporting Information)

312. **Gadagkar, R.** (2018). Where Humans are Animals and Animals are Human. A Review of – *My Family and Other Animals, Gerald Malcolm Durrell (1925-1995*), Puffin Books, (2016). [First published by in Great Briton by Rupert Hart-Davis, 1956]. *Resonance– Journal of Science Education*, 23 (5),609-612. https://doi.org/10.1007/s12045-018-0654-7 (PDF)

311. **Gadagkar, R. (**2018). Entomological research in India: Basic and applied research remain disconnected, Science Communication Plenary, 2018, International Branch Virtual Symposium, Entomological Society of America. https://esa.confex.com/esa/2018intl/meetingapp.cgi/Paper/130240 (PDF)

310. **Gadagkar, R. (**2018). Social Evolution: Does Collapsing Taxonomic Boundaries Produce a Synthetic Theory? A Review of *Comparative Social Evolution*, (Eds.) D. R. Rubenstein and P. Abbot, Cambridge University Press, Cambridge, New York, (2017). *The Quarterly Review of Biology*, 93 (2), 121-125. https://doi.org/10.1086/698022 (PDF)

309. **Gadagkar, R. (**2018). Let's Empower People with The Method of Science and Not Merely Its Conclusions. http://confluence.ias.ac.in/lets-empower-people-with-the-method-of-science-and-not-merely-its-conclusions/ (PDF)

308. Taylor, H. (Presenter). 2018. Is birdsong music? The Science Show, Australian Broadcasting Corporation Radio. http://www.abc.net.au/radionational/programs/scienceshow/is-birdsong-music/9416572; Presenter: Hollis Taylor; Producer: David Fisher; Sound Engineer: Russell Stapleton; **Guests:** Tim Low, Ofer Tchernichovski, Constance Scharff, Richard Prum, Ani Patel, Onur Güntürkün, Philip Kitcher, **Raghavendra Gadagkar**, Bernie Krause. (PDF) Audio (54 Mins, 75 Mb)

307. **Gadagkar, R.** (2018). Evaluate the Evaluations! *Dialogue - Science, Scientists, and Society,*1(1). http://dialogue.ias.ac.in/article/9123/evaluate-the-evaluations https://doi.org/10.29195/DSSS.01.01.0005 (PDF)

306. **Gadagkar, R. (**2018). Let's Create Budgetary Literacy. *Confluence – Indian Academy of Sciences*. http://confluence.ias.ac.in/lets-create-budgetary-literacy/ (PDF)

305. Chakraborty, S., Bhadra, A., Nandi, A. K., Annagiri, S., Deshpande, S., Lamba, S., Bang, A. and **Gadagkar, R.** (2018). Evolution of reproductive dominance in animal societies – lessons from a social wasp. *Proceedings of the Indian National Science Academy,* 84 (3), 695-705. https://doi.org/10.16943/ptinsa/2018/49310 (PDF)

304. Brahma, A., Mandal, S. and **Gadagkar, R.** (2018). Current indirect fitness and future direct fitness are not incompatible. *Biology Letters,* 14*,* February, 20170592. http://doi.org/10/1098/rsbl.2017.0592. (PDF) Data Supplement: 1. Natural history of Ropalidia marginata, Materials and methods, results, references, figures and R-codes; 2. Data, GLMM analysis and bootstrap analysis

303. Saha, P., Nandi, A.K., Unnikrishnan, S., Shilpa, M. C., Shukla, S., Mandal, S., Mitra, A. and **Gadagkar, R.** (2018). A Route to Direct Fitness: Natural and Experimentally Induced Queen Succession in the Tropical Primitively Eusocial Wasp *Ropalidia marginata*. *Journal of Insect Behavior*, 31, 54-65. http://doi.org/10.1007/s10905-017-9657-6 (PDF)

302. Brahma, A., Mandal, S. and **Gadagkar, R.** (2018). Emergence of cooperation and division of labor in the primitively eusocial wasp *Ropalidia marginata*. *Proceedings of the National Academy of Sciences, USA*, 115, 756-761. http://doi.org/10.1073/pnas.1714006115 (PDF) Supporting Information 1. Supporting Information 2. Supporting Information 3.

301. **Gadagkar, R. (**2017). Choosing a New Queen: Consensus without Conflict in a Social Wasp Colony. In: *Landscapes of Collectivity in the Life Sciences*. (Eds.) S.B. Gissis, E. Lamm and A. Shavit, The MIT Press, Cambridge, Massachusetts*,* pp.67-75. (PDF)

300. **Gadagkar, R. (**2016). Why does our society lack scientific temper and what can scientists do about it? *Journal of Scientific Temper,* 4 (1&2), 57-60. (PDF) Hindi: **राघवेंद्र गदगकर** (२०१८). वैज्ञानिक स्वभाव और वैज्ञानिकों की भूमिका. स्त्रोत. १२:५, २४-२६ (PDF)

300a. **Gadagkar, R. (**2018). Why does our society lack scientific temper and what can scientists do about it? *Confluence*, Indian Academy of Sciences, 2 January. (Reprinted from the above). http://confluence.ias.ac.in/why-does-our-society-lack-scientific-temper-and-what-can-scientists-do-about-it/ (PDF)

299. **Gadagkar, R.** (2017). A Tale of Science, Passion and Politics. A Review of – *How to Tame a Fox (and Build a Dog) – Visionary Scientists and a Siberian Tale of Jump-Started Evolution* by L.A. Dugatkin and Lyudmila Trut, The University of Chicago Press, Chicago and London (2017). *Proc. Indian Natn. Sci. Acad*. 83 (4), 973-975. http://doi.org/10.16943/ptinsa/2017/49222 (PDF)

298. Mandal, S., Brahma, A. and **Gadagkar, R.** (2017). Homing in a tropical social wasp: role of spatial familiarity, motivation and age. *J. Comp. Physiol. A.*203, 915-927. http://doi.org/10.1007/s00359-017-1202-8 (PDF)

297. **Gadagkar, R. (**2017). The World (of education, research and business) Is No Longer What We Imagined - A Review of - *Whiplash - How to Survive Our Faster Future* by J. Ito and J. Howe, Grand Central Publishing, New York (2016). *Proc. Indian Natn. Sci. Acad*, 83, 717-719. http://doi.org/10.6943/ptinsa/2017/41291. (PDF)

296. **Gadagkar, R.** (2017). Guest Editorial: Indian National Science Academy*: Some Challenges Ahead. Proc. Indian Natn. Sci. Acad.* 83, 1-4*.* http://doi.org/10.16943/ptinsa/2017/41291 (PDF)

295. Unnikrishnan, S. and **Gadagkar, R.** (2017). Dominance based reproductive queue in the primitively eusocial wasp, *Ropalidia cyathiformis*. *Insectes Sociaux,* 64, 495-503. http://doi.org/10.1007/s00040-017-0568-5 (PDF)

294. **Gadagkar, R.** (2017). The evolution of culture (or the lack thereof): mapping the conceptual space. *J. Genetics*, 96, 513-516. http://doi.org/10.1007/s12041-017-0795-6 (PDF)

293. Sridhar, H. and **Gadagkar, R.** (2017). Standing conventional wisdom on its head – an interview with **Raghavendra Gadagkar** (Full interview). Ecology Students Society, Centre for Ecological Sciences, Indian Institute of Science. https://cesess.wordpress.com/2017/07/13/standing-conventional-wisdom-on-its-head-a-conversation-with-raghavendra-gadagkar-full-interview/ (PDF)

293a. Sridhar, H. and **Gadagkar, R.** (2017). Standing conventional wisdom on its head – Conversation with Prof. **Raghavendra Gadagkar** [Excerpt]. https://indiabioscience.org/columns/conversations/standing-conventional-wisdom-on-its-head. (PDF)

293b. Sridhar, H. and **Gadagkar, R. (**2018). Standing conventional wisdom on its head: an interview with **Raghavendra Gadagkar***. Dialogue – Science, Scientists, and Society.*1 (1). http://doi.org/10.29195/DSSS.01.01.0004 (PDF)

292. **Gadagkar, R**., Majumder, P.P. and Mehta, D. (2017). #TKAK (The Kith And Kin, June 24, 2017). https://syntalk.wordpress.com/episodes/turn-three/tkak/ Poster**.** Audio (1hr: 15mins, 171 Mb)**.**

291. **Gadagkar, R.** and Niranjana, T. (2017). The Integrated Science Education Experiment - Centre for Contemporary Studies (CCS)-Indian Institute of Science and Centre for the Study of Culture and Society (CSCS), 2006-14. - A

Conversation between **Raghavendra Gadagkar** and Tejaswini Niranjana. In: *Breaking the Silo - Integrated Science Education in India,* (Eds.) Dhar, A., Niranjana, T. and Sridhar, K., Bengaluru: Orient BlackSwan, pp.38-64. (PDF)

290. **Gadagkar, R. (**2017). Guest Editorial: Indian National Science Academy: Some Challenges Ahead. *Proc. Indian Natn. Sci. Acad.,* 83 (1), 1-4. http://doi.org/10.16943/ptinsa/2017/41291 **(PDF)**

289. **Gadagkar, R. (**2017). The Universe – Which Tools to Understand It. *Proc. Indian Natn. Sci. Acad.,* 83 (1), 5-7. https://doi.org/10.16943/ptinsa/2016/48860 (PDF)

288. **Gadagkar, R. (**2016). Foreword - Merging the spirit of Art and Science. In: *Arting Science* (Ed.) Bitasta Das, IISc Press, pp.7-8. (PDF)

287. **Gadagkar, R. (**2016). Die Zukunftkönnteun süberraschen (The future could surprise us). *Frankfurter Allgemeine Zeitung,* NR 280, (November 30). (PDF)

286. **Gadagkar, R. (**2016). A Most Perfect Read - A Review of - *The Most Perfect Thing: Inside (and Outside) a Bird's Egg* by Tim Birkhead, Bloomsbury, USA, 2016. *Proc. Indian Natn. Sci. Acad.,* 82 (4), 1323-1324. (PDF)

285. **Gadagkar, R. (**2016). The 'pay-to-publish' model should be abolished. *Notes and Records: The Royal Society Journal of the History of Science*, 70, 403-404. https://doi.org/10.1098/rsnr.2016.0039 (PDF)

284. Bang, A. and **Gadagkar, R.** (2016). Winner-loser effects in a eusocial wasp. *Insectes Sociaux*, 63, 349-352. https://doi.org/10.1007/s00040-015-0455-x. (PDF)

283. Olejarz, J. W., Allen, B., Veller, C., **Gadagkar, R**. and Nowak, M. A. (2016). Evolution of Worker Policing. *Journal of Theoretical Biology,* 399, 103-116. https://doi.org/10.1016/j.jtbi.2016.03.001 (PDF)

282. **Gadagkar, R. (**2016). Evolution of social behaviour in the primitively eusocial wasp *Ropalidia marginata:* do we need to look beyond kin selection? *Phil. Trans. R. Soc. B.,* 371, 1-8. https://doi.org/10.1098/rstb.2015.0094 (PDF)

281 **Gadagkar, R. (**2015). Referee Report For: Competition over guarding in the Arabian babbler (*Turdoides squamiceps*), a cooperative breeder (version 1; referees: 1 approved, 2 approved with reservations). *F1000Research,* 4, 618. https://doi.org/10.5256/f1000research.7238.r11476. (PDF)

280. **Gadagkar, R. (**2015). The Family System of a Social Wasp. In: *The Family Emotional System –An Integrative Concept for theory, Science and Practice*. (Eds.) Noone,R.J. and Papero,D.V, Lexington Books, Boulder, pp.161-183. (PDF)

279. Mandal, S. and **Gadagkar, R.** (2015). Homing abilities of the tropical primitively eusocial paper wasp *Ropalidia marginata. Journal of Comparative*

Physiology A, 201, 795-802. https://doi.org/10.1007/s00359-015-1019-2 (PDF)

278. Mitra, A., Nettimi, R. P., Ramachandran, A., Saha, P. and **Gadagkar, R.** (2015). Males and females of the social wasp *Ropalidia marginata* do not differ in their cuticular hydrocarbon profiles and do not seem to use any long-distance volatile mate attraction cues. *Insectes Sociaux*, 62, *281*-289. https://doi.org/10.1007/s00040-015-0408-4 (PDF)

277. McBean, G., Reddy, D., Lee, Y. T., Jinghai, L., Clegg, M., Black, D., Erazmus, B., Ball, J., **Gadagkar, R**., Moreau, N., Tatsumi, K., de León, M., Buckeridge, J.; Altan, O. and de la Rey, C. (2015). International Council for Science Responds. *Nature,* January, 517, p.145. https://doi.org/10.1038/517145e (PDF)

276. **Gadagkar, R. (**2015). Solve local problems. *Nature,* 521, p.153. https://doi.org/10.1038/521151a (PDF)

275. **Gadagkar, R. (**2015). How Should Biologists Engage With Controversial Mathematical Theory? *Current Science,* 108, 1869-1873. (PDF)

284. **Gadagkar, R.** (2014). Role of Science, Technology and Innovation in Ensuring Sustainable Inclusive Development. *Proc. Indian Natn. Sci. Acad.* 80,181-183. (PDF)

273. **Gadagkar, R. (**2014). Look for the Big Picture - A Review of – *Randomness in Evolution* by J.T. Bonner, Princeton University Press, Princeton, New Jersey (2013). *Current Science*, 106 (9), 1312-1313. (PDF)

272. Shukla, S., Pareek, V. and **Gadagkar, R.** (2014). Ovarian development in a primitively eusocial wasp: Social interactions affect behaviourally dominant and subordinate wasps in opposite directions relative to solitary females. *Behavioural Processes,* 106, 22-26. https://doi.org/10.1016/j.beproc.2014.04.003 (PDF)

271. Mitra, R., Ramachandran, A. and **Gadagkar, R.** (2014). Nestmate discrimination in the social wasp *Ropalidia marginata*: chemical cues and chemosensory mechanisms. *Animal Behaviour, 88,* 113-124. https://doi.org/10.1016/j.anbehav.2013.11.017 (PDF) (Supporting Information)

270. Mitra, A. and **Gadagkar,R**. (2014). The Dufour's gland and cuticle in the social wasp *Ropalidia marginata* contain the same hydrocarbons in similar proportions. *Journal of Insect Science,* 14 (9). January. https://www.insectscience.org/14.9 https://doi.org/10.1093/jis/14.1.9 (PDF)

269. Roughgarden, J., Adkins-Regan, E., Akcay, E., Alonso, S., Bailey, N., Crawford, J. C., Dall, S., Dhole, S., Fearon, J., Fitzpatrick, C., **Gadagkar, R.,** Griffith, S. C., Grossbard, S., Hinde, C., Hoquet, T., Iyer, P., Milam, E., O'Connor, C., Prokop, Z. M., Prum, R. O., Richardson, S., Ritchie, M., Rosvall, K., Rubenstein, D., Safran, R., Santos, G. R., Servedio, M., Shafir, S., Shuker, D., Shuster, S., Snow, S. S., Taylor, D., Van Cleve, J., Wade, M.

and Weisberg, M. (2014). Sexual Selection Studies: Progress, Challenges, and Future Directions. Technical Report from a NESCent Catalyst Meeting, Durham, North Carolina, July 15-17, 2013.

269a. Roughgarden, J., Adkins-Regan, E., Akcay, E., Crawford, J. C., **Gadagkar, R.,** Griffith, S. C., Hinde, C., Hoquet, T., O'Connor, C., Prokop, Z. M., Prum, R. O., Shafir, S., Snow, S. S., Taylor, D., Van Cleve, J. and Weisberg, M. (2015). Sexual Selection Studies: A NESCent Catalyst Meeting. *Peerj Preprints, 3*: pp.e680v3. http://doi.org/10.7287/peerj.preprints.680v3 (PDF)

268. Shukla, S., Shilpa, M. C. and **Gadagkar, R.** (2013). Virgin wasps develop ovaries on par with mated females, but lay fewer eggs. *Insectes Sociaux,* 60, 345-350 http://doi.org/10.1007/s00040-013-0299-1 (PDF)

267. Nandi, A. K., Bhadra, A., Sumana, A., Deshpande, S. A. and **Gadagkar, R.** (2013). The Evolution of Complexity in Social Organization – A Model Using Dominance-Subordinate Behavior in Two Social Wasp Species. *Journal of Theoretical Biology*, 327, 34-44. http://doi.org/10.1016/j.jtbi.2013.01.010 (PDF)

266. Shukla, S., Chandran, S. and **Gadagkar, R.** (2013). Ovarian developmental variation in the primitively eusocial wasp *Ropalidia marginata* suggests a gateway to worker ontogeny and the evolution of sociality. *Journal of Experimental Biology,* 216, 181-187. http://doi.org/10.1242/jeb.073148 (PDF)

265. Bang, A. and **Gadagkar,R.** (2012). Reproductive queue without conflict in the primitively eusocial wasp *Ropalidia marginata*. *Proc. Natl. Acad. Sci. USA*.109, 14494-14499. http://doi.org/10.1073/pnas.1212698109 (PDF)

264. **Gadagkar, R. (**2012).The Luxury of Introspection. In: *Über das Kolleghinaus - Joachim Nettelbeck, dem Sekretär des Wissenschaftskollegs 1981 bis 2012 (Beyond the college-Joachim Nettelbeck, the Secretary of the Wissenschaftskollegs from 1981-2012)* (Eds.) Diawara, M.; Günther, K., and Meyer-Kalkus, R., Wissenschaftskolleg zu Berlin, Germany, pp. 152-157. (PDF)

263. Mitra, A. and **Gadagkar, R.** (2012). Queens and Workers of the Primitively Eusocial Wasp *Ropalidia marginata* do not Differ in Their Dufour's Gland Morphology. *Sociobiology*, 59 (3), 875-884. https://doi.org/10.13102/sociobiology.v59i3.553 (PDF)

262. Mitra, A. and **Gadagkar, R.** (2012). Road to Royalty – Transition of Potential Queen to Queen in the Primitively Eusocial Wasp *Ropalidia marginata*. *Ethology,*118, 694-702. https://doi.org/10.1111/j.1439-0310.2012.02059.x (PDF)

261. Mitra, A. and **Gadagkar, R.** (2012). Queen signal should be honest to be involved in maintenance of eusociality: chemical correlates of fertility in *Ropalidia marginata. Insect. Soc*., 59, 251-255. https://doi.org/10.1007/s00040-011-0214-6 (PDF)

260. Saha, P., Balasubramaniam, K. N., Kalyani, J. N., Supriya, K., Padmanabhan, A. and **Gadagkar, R.** (2012). Clinging to royalty: *Ropalidia marginata* queens can employ both pheromone and aggression. *Insect Soc.,* 59, 41-44. http://doi.org/10.1007/s00040-011-0185-7 (PDF)

259. Shilpa, M. C., Sen, R., Samudre, S. and **Gadagkar, R.** (2012). Males, but not females, mate with multiple partners: a laboratory study of a primitively eusocial wasp *Ropalidia marginata*. *Insect. Soc.,* 59, 61-65. http://doi.org/10.1007/s00040-011-0188-4 (PDF)

258. **Gadagkar, R. (**2011). Reproduction: the almost forgotten currency of fitness. *Current Science*, 101, 725-726. (PDF)

257. **Gadagkar, R. (**2011). Altruistic Wasps? *Science*, 333, 833-834. https://doi.org/10.1126/science.1210420 (PDF)

256. Sen, R. and **Gadagkar, R.** (2011). Behavioural and morphological dimorphism of the sexes: an account of two primitively eusocial wasps. *Journal of Natural History*, 45, 1295-1309. https://doi.org/10.1080/00222933.2011.552808 (PDF)

255. **Gadagkar, R. (**2011). The birth of ant genomics. *Proc. Natl. Acad. Sci, USA*,108, 5477-5478**.** https://doi.org/10.1073/pnas.1100765108 (PDF)

254. **Gadagkar, R. (**2011). Science as a hobby: how and why I came to study the social life of an Indian Primitively eusocial wasp. *Current Science*, 100, 845-858. (PDF)

254a. **गदगकर, राघवेंद्र**. (२०११). भाग १: विज्ञान का शौक और भारतीय आदिम सामाजिक ततैयोंका अध्ययन. *शैक्षणिक संदर्भ.* (२०११).७७: १६-२९. भाग २:भारतीय आदिम ततैया: परोपकार के सरोकार. *शैक्षणिक संदर्भ.* (२०११). ७८: ३७-५२.भाग 3: पहिले शोध-प्रश्न फिर जन्तु और शोध विधी. *शैक्षणिक संदर्भ.* (२०१२). ७९:२१-२९. (अनुवाद: सुशील जोशी). Hindi translation. **(PDF)**

253. **Gadagkar, R. (**2011). War and Peace - Conflict & Cooperation in an Insect Society. *Science Reporter*, January, 8-12. (PDF)

252. **Gadagkar, R. (**2011). What can we learn from insect societies? In: *Nature and Culture* (Eds.) R. Narasimha and S. Menon), Centre for Studies in Civilizations (CSC) and Project of History of Indian Science, Philosophy and Culture (PHSPC), New Delhi, Volume XIV, Part 1, pp.357-365. (PDF)

252a. **Gadagkar, R. (**2019). What Can We Learn from Insect Societies? In: *Social Science at the Crossroads*, Volume 13 of the IIS-series, (Eds.) Randeria, S. and Wittrock, B. in honor of Shmuel N. Eisenstadt and Yehuda Elkana, Koninklijke Brill NV, Leiden, pp.17-26. https://doi.org/10.1163/9789004385122_003 (Revised version) (PDF)

251. Mitra, A. and **Gadagkar, R.** (2011). Can Dufour's gland compounds honestly signal fertility in the primitively eusocial wasp *Ropalidia marginata*? *Naturwissenschaften,* 98, 157-161. https://doi.org/10.1007/s00114-010-0749-9 (PDF)

250. Mitra, A., Saha, P., Chaoulideer, M. E., Bhadra, A. and **Gadagkar, R.** (2011). Chemical communication in *Ropalidia marginata:* Dufour's gland contains queen signal that is perceived across colonies and does not contain colony signal. *Journal of Insect Physiology*, 57, 280-284. https://doi.org/10.1016/j.jinsphys.2010.11.014 (PDF)

249. **Gadagkar, R. (**2011). War and Peace: Conflict and Cooperation in a Tropical Insect Society. In: *Common Knowledge: The Challenge of Transdisciplinarity* (Eds.) Moira Cockell, Jérôme Billotte, Frédéric Darbellay, and Francis Waldvogel, EPFL Press, pp. 75-96. (PDF)

248. **Gadagkar, R. (**2010). CSIR Foundation Day Lecture : War and Peace: Conflict and Cooperation in an Insect Society. *CSIR News*, 60, 221-224. (PDF)

247. **Gadagkar, R. (**2010). Profile – In love with *Ropalidia marginata*: 34 years, and still going strong. In*: Social Behaviour – Genes, Ecology and Evolution* (Eds.) Székely,T., Moore,A.J. and Komdeur,J., Cambridge University Press, Cambridge, UK, pp.85-87. https://doi.org/10.1017/CBO9780511781360.008 (PDF)

246. **Gadagkar, R. (**2010). Sociobiology in turmoil again. *Current Science*, 99 (8), 1036-1041. (PDF)

245. Karnik, N., Channaveerappa, H., Ranganath, H. A. and **Gadagkar, R.** (2010). Karyotype instability in the ponerine ant genus *Diacamma*. *Journal of Genetics,* 89 (2)*,* 173-182. https://doi.org/10.1007/s12041-010-0023-0 (PDF)

244. **Gadagkar, R. (**2009). Foreword – *Satpada – Our World of Insects* by Thomas,R. and Iyer,G., Rishi Valley Education Centre, Krishnamurti Foundation India, Andhra Pradesh, pp.v-vi. (PDF)

243. Shilpa, M. C., Sen, R. and **Gadagkar, R.** (2010). Nestmateship, body size and dominance do not influence mate choice in males and females: A laboratory study of a primitively eusocial wasp *Ropalidia marginata*. *Behavioural Processes*, 85, 42-46. https://doi.org/10.1016/j.beproc.2010.06.004 (PDF)

242. **Gadagkar, R. (**2010**).** Foreword. *A Concise Field Guide to Indian Insects & Arachnids* by Meenakshi Venkataraman, Simova Education and Research, Madhavanagar, Bangalore, p. vi –vii. (PDF)

241. **Gadagkar, R. (**2015) Cooperation. In: *Reference Module in Earth Systems and Environmental Sciences,* (ed.) J. Reedijk, Elsevier, Waltham, MA, pp.1-2. (PDF)

240. **Gadagkar, R. (**2010). Ant, Bee and Wasp Social Evolution. In*: Encylopedia of Animal Behaviour,* Volume 1, (Eds.) Breed,M. and Moore,J., Academic Press, Oxford, pp.73-81. https://doi.org/10.1016/B978-0-08-045337-8.00346-6 (PDF)

240a. **Gadagkar, R. (**2017). Ant, Bee and Wasp Social Evolution. In: *Reference Module in Life Sciences,* Elsevier. https://doi.org/10.106/B978-0-12-809633-8.01024-4 (Revised version). (PDF)

240b. **Gadagkar, R. (**2019). Ant, Bee and Wasp Social Evolution. In: *Encyclopedia of Animal Behaviour,* 2nd Edition, Vol.4, Elsevier, Academic Press, pp.599-608, https://doi.org/10.1016/B978-0-12-813251-7-90136-6 (Revised version). (PDF)

239. Bhadra, A., Mitra, A., Deshpande, S. A., Chandrasekhar, K., Naik, D. G., Hefetz, A. and **Gadagkar, R.** (2010). Regulation of Reproduction in the Primitively Eusocial Wasp *Ropalidia marginata*: on the trail of the queen pheromone. *Journal of Chemical Ecology,* 36, 424-431. https://doi.org/10.1007/s10886-010-9770-x (PDF) (Supporting Information)

238. Sen, R. and **Gadagkar, R.** (2010). Natural history and behaviour of the primitively eusocial wasp *Ropalidia marginata* (Hymenoptera: Vespidae): a comparison of the two sexes. *Journal of Natural History,* 44, 959-968. https://doi.org/10.1080/00222931003615703 (PDF)

237. Bang, A., Deshpande, S., Sumana, A. and **Gadagkar, R.** (2010). Choosing an appropriate index to construct dominance hierarchies in animal societies: A comparison of three indices. *Animal Behaviour*, 79*,* 631-636*.* https://doi.org/10.1016/j.anbehav.2009.12.009 (PDF)

236. Sen, R., Samudre, S., Shilpa, M. C., Tarak, R. C. and **Gadagkar, R.** (2010). Middle aged wasps mate through most of the year, without regard to body size, ovarian development and nestmateship: a laboratory study of the primitively eusocial wasp *Ropalidia marginata*. *Insectes Sociaux,* 57, 95-103. https://doi.org/10.1007/s00040-009-0054-9 (PDF)

235. **Gadagkar, R. (**2010). A Review of - *The Lives of Ants* by Laurent Keller and Élisabeth Gordon (Translated from French by James Grieve), Oxford University Press, Oxford, 2009. *Myrmecological News*, 13, 29-30. (PDF)

234. **Gadagkar, R. (**2009). Bonner's Slim Magnum Opus - A Review of - *The Social Amoebae: The Biology of Cellular Slime Molds'* by J.T.Bonner, Princeton University Press, Princeton (2009). *Current Science,* 97*,* 1675-1676. (PDF)

233. **Gadagkar, R. (**2009). Open access does more harm than good when based on a 'pay to publish' business model. *Physiology News*, 75, p.46. (PDF)

232. **Gadagkar, R. (**2009). In Praise of Organismal Biology, *Proceedings of the Platinum Jubilee of the Indian National Science Academy,* New Delhi, pp.37-41. (PDF)

231. **Gadagkar, R. (**2009). Why are animals (and humans) nice to each other? In: *Current Trends in Science* – Platinum Jubilee Special, (Ed.) N. Mukunda, Indian Academy of Sciences, Bangalore, pp.191-197. (PDF)

230. Nagendra, H. and **Gadagkar, R.** (Guest Editors) (2009) (*Special Section – Science and Society*). In this issue - Society and Science: Interdisciplinary Exchanges, *Current Science*, 97, 1513-1514. (PDF)

229. Johny, S., Charkaborty, S. **Gadagkar, R.** and Nagaraju, J. (2009). Polymorphic microsatellite loci for primitively eusocial wasp *Ropalidia marginata. Molecular Ecology Resources,* 9 (4) 1172-1175. https://doi.org/10.1111/j.1755-0998-2009.02597.x (PDF)

228. **Gadagkar, R. (**2009). Interrogating an Insect Society. *Proceedings of the National Academy of Sciences, USA,* 106, 10407-10414. https://doi.org/10.1073/pnas.0904317106. [Reprinted in the year book 2008-2009, Wissenschaftskolleg zu Berlin]. (PDF)

227. Bhadra, A., Jordan, F., Sumana, A., Deshpande, S. A. and **Gadagkar, R.** (2009). A comparative social network analysis of wasp colonies and classrooms: linking network structure to functioning. *Ecological Complexity*, 6, 48-55. https://doi.org/10.1016/j.ecocom.2008.10.004 (PDF)

226. **Gadagkar, R. (**2008). Open-access more harm than good in developing world. *Nature,* 453, p.450. https://doi.org/10.1038/453450c (PDF)

225. **Gadagkar, R. (**2008). What's happening at the Centre for Contemporary Studies and Why? *Voices, No.6, Indian Institute of Science, Bangalore.* (PDF)

224. **Gadagkar, R. (**2008). Why I do not discourage my students from "wasting" their time with the "theatre"? *MOITREE, The Bangla Theatre Festival in Bengaluru*, 3-4. (PDF)

223. **Gadagkar, R. (**2008). Why are animals nice to each other? In: *The Seventy Great Mysteries of the Natural World,* (Ed.) M.J. Benton, Thames & Hudson Ltd., London, pp.225-228. (PDF)

222. **Gadagkar, R. (**2008). Cooperation. In: *Behavioural Ecology*. Vol.1 of *Encyclopedia of Ecology*, (Eds.) S.E. Jorgensen and Fath, B.D., Elsevier Ltd., Oxford, pp.776-777. https://doi.org/10.1016/B978-008045405-4.00009-4 (PDF)

221. Bhadra, A. and **Gadagkar, R.** (2008). We know that the wasps 'know': cryptic successors to the queen in *Ropalidia marginata*. *Biol. Lett., 4,* 634-637. https://doi.org/10.1098/rsbl.2008.0455 (PDF)

220. Lamba, S., Chandrasekhar, K. and **Gadagkar, R.** (2008). Signaling hunger through aggression - the regulation of foraging in a primitively eusocial wasp. *Naturwissenschaften,* 95, 677-680. https://doi.org/10.1007/s00114-008-0369-9 (PDF)

219. Sumana, A., Deshpande S. A., Bhadra, A. and **Gadagkar, R.** (2008). Workers of the primitively eusocial wasp *Ropalidia marginata* do not perceive their queen across a wire mesh partition. *Journal of Ethology*, 26, 207-212. https://doi.org/10.1007/s10164-007-0049-9 (PDF)

218. **Gadagkar, R. (**2007). Rats are nicer than we think, at least to each other. *Journal of Biosciences*, 32 (7), 1223-1225. https://doi.org/10.1007/s12038-007-0131-z (PDF)

217. **Gadagkar, R. (**2007). Foreword – *The Evolution of Social Wasps* by J.H.Hunt, Oxford University Press, Oxford, 2007, pp.vii-ix. (PDF)

216. Bhadra, A., Iyer, P., Sumana, A., Deshpande, S. A., Ghosh, S. and **Gadagkar, R.** (2007). How do workers of the primitively eusocial wasp *Ropalidia marginata* detect the presence of their queens? *Journal of Theoretical Biology,* 246, 574-582 https://doi.org/10.1016/j.beproc.2006.12.003 (PDF)

215. Lamba, S., Kazi, Y. C., Deshpande, S., Natesh, M., Bhadra, A. and **Gadagkar, R.** (2007). A possible novel function of dominance behaviour in queen-less colonies of the primitively eusocial wasp *Ropalidia marginata*. *Behavioural Processes,* 74, 351-356. https://doi.org/10.1016/j.beproc.2006.12.003 (PDF)

214. **Gadagkar, R. (**2006). Exporting Metaphors, Concepts and Methods from the Natural Sciences to the Social Sciences and *vice versa*. In: *Understanding Change – Models, Methodologies, and Metaphors* (Eds.) Wimmer,A. and Kossler,R., Palgrave Macmillan, New York, pp.187-195. https://doi.org/10.1007/978-0-230-52464-4_13 (PDF)

213. Deshpande, S. A., Sumana, A., Surbeck, M. and **Gadagkar, R.** (2006). Wasp who would be queen: A comparative study of two primitively eusocial species. *Current Science*, 91 (3), 332-336. (PDF)

212. Sen, R. and **Gadagkar, R.** (2006). Males of the social wasp *Ropalidia marginata* can feed larvae, given an opportunity. *Animal Behaviour,* 71,345-350. https://doi.org/10.1016/j.anbehav.2005.04.022 (PDF)

211. Bruyndonckx, N., Kardile, S. P. and **Gadagkar, R.** (2006). Dominance behaviour and regulation of foraging activity in the primitively eusocial wasp *Ropalidia marginata* (Lep.) (Hymenoptera: Vespidae). *Behavioural Processes,* 72, 100-103. https://doi.org/10.1016/j.beproc.2005.11.013 (PDF)

210. **Gadagkar, R.** and Nowotny, H. (2006). Konfliktoder Kooperation. Strategientierischer und menschlicher Gemeinschaften. In: *Thema: Warum Krieg? Texte und Protokollezum Briefwechsel Albert Einstein – Sigmund*

Freud, von Schlebrügge, J. (Ed.) Bruno Kriesky Forum fur internationalen Dialog, pp.160-170. (PDF)

209. **Gadagkar, R. (**2006). Who First Invented Agriculture? In: *Indian Institute of Science Pensioners' Association Bangalore, Silver Jubilee, 1980-2005*. Souvenir, pp.9-10. (PDF)

208. **Gadagkar, R. (**2006). The Evolution of a Biologist in an Interdisciplinary Environment. In: *25 Jahre Wissenschaftskolleg zu Berlin 1981-2006*, (Eds.) Grimm, D. and Meyer-Kalkus, R., Berlin, Academie Verlag, pp.167-180. (PDF)

207. **Gadagkar, R. (**2006). Guest Editorial - Some Reflections on the Pursuit and Evaluation of Science. *Current Science*, 90 (4), 473-474. (PDF)

206. **Gadagkar, R. (**2006). Subaltern Insect Societies – A Review of –*The Other insect Societies* by James T. Costa, The Belknap Press of Harvard University Press, Cambridge, Massachussets and London (2006), *Science*, **314**, p.1391. https://doi.org/10.1126/science.1135094 (PDF)

205. **Gadagkar, R. (**2006**). (**Editor). Proceedings of the DST Workshop on "Methods in Behavioural Ecology" organised at Jawaharlal Nehru Centre, Indian Institute of Science Campus, Bangalore from 16-28 January 2006, Centre for Ecological Sciences, Technical Report No. 108**.**

204. **Gadagkar, R. (**2006). *Readings in Behaviour, Ecology and Evolution*. Centre for Ecological Sciences, Technical Report No. 107**.**

203. Kardile, S. P. and **Gadagkar, R.** (2005**).** Observations on the Natural History and Behaviour of the Primitively Eusocial Wasp *Ropalidia cyathiformis* (Fab.) (Hymenoptera: Vespidae). *Journal of Bombay Natural History Society,* 102 (3), 265-273. (PDF)

202. **Gadagkar, R. (**2005). "Nothing in Biology Makes Sense Except in the Light of Evolution" – A Review of *The Theory of Evolution*by John Maynard Smith, Canto Edition, Cambridge University Press, (1993). *Resonance – journal of science education*,10 (11), 95-97. https://doi.org/10.1007/BF02837650 (PDF)

201. **Gadagkar, R. (**2005). The Logic of Animal Conflict**.** *Resonance – journal of science education*, 10(11) p.5. https://doi.org/10.1007/BF02837640 (PDF)

200. **Gadagkar, R. (**2005). Obituary – Ernst Mayr (1904-2005). *Journal of Genetics*, 84(1), 87-89. (PDF)

199. **Gadagkar, R. (**2005). Donald Griffin Strove to give Animals their Due. *Resonance – journal of science education*, 10(2) 3-5. https://doi.org/10.1007/BF02835918 (PDF)

198. **Gadagkar, R.** and Chandrashekara, K. (2005). Behavioral Diversity and its Apportionment in a Primitively Eusocial Wasp. In: *Insect Phenotypic Plasticity*

– *Diversity of Responses* (Eds.) T.N.Ananthakrishnan and Douglas Whitman, Science Publishers, Inc., Enfield, USA and Plymouth, UK, pp.107-124. (PDF)

197. Chakravarthy, A.K., Anand, S.K., Das, A., Bhaskar, D.K., Maddikery, G.V., Nagaraj, H., Bhat, H., Karnatak, H.C., Chandrashekar, I., Alfred, J.R.B., Haritsa, J.R., Gopinath, K., Gururaja, K.V., Shankar, K., Shyamal, L., Krishna, M.B., Gadgil, M., Munshi, M., Irfanullah, M., Menon, N.R., Murthy, N., Krishnan, P.N., Rao, P.R.S., Roy, P.S., Subbarao, P., Keshavachandran, R., Raj, R.S., **Gadagkar, R**., Rekha, Swarup, R., Karthikeyan, S., Krishnan, S., Sharma, S., Eapen, S.J., Singh, S., Bhat, S., Shivanna, Srinidhi, S., Arunachalam, S.S., Suja, Sarin, S., Rajashekar, T.B., Ramachandra, T.V., Sivan, V.V., Gupta, V.K., Ramamurthy, V.V., Vasu, G.J., Barve, V., Edlabadkar, V. and Chavan, V. (2004) On networking Indian biodiversity databases .*BD DB Networking workshop*, March 23-24, 1-13. (PDF)

196. **Gadagkar, R. (**2004). Sex…Only if Really Necessary in a Feminine Monarchy. *Science,* 306, 1694-1695. https://doi.org/10.1126/science.1106673 (PDF)

195. **Gadagkar, R. (**2004). Genetically engineered monogamy in voles lends credence to the *modus operandi* of behavioural ecology. *Journal of Genetics,* 83 (2), 25-27. https://doi.org/10.1007/BF02729888 (PDF)

194. **Gadagkar, R. (**2004). John Maynard Smith - 6 January 1920 – 19 April 2004. *Journal of Biosciences*, 29(2), 139-141. https://doi.org/10.1007/BF02703411 (PDF)

193. **Gadagkar, R. (**2004). Next time we hear a frog croak, let's say thank you! *Current Science,* 86 (1), 15-16. (PDF)

192. **Gadagkar, R. (**2004). Are animals Conscious of Their Actions? In: *Life, Mind and Consciousness*. *Papers read at a Seminar held at the Ramakrishna Mission Institute of Culture, Kolkata*, India on 16, 17 and 18 January 2004, The Ramakrishna Mission Institute of Culture, Kolkata, pp.232-252 (PDF)

191. Agrahari, M. and **Gadagkar, R.** (2004). Division of labour and its regulation in a primitively eusocial wasp. In: *Proceedings of the National Symposium on Frontier Areas of Entomological Research, Nov. 5-7 2003* (Eds.) Subrahmanyam,B., Ramamurthy,V.V. and Singh,V.S., Indian Agricultural Research Institute, New Delhi, pp. 237-253. (PDF)

190. Ramaswamy, K., Peeters, C., Yuvana, S. P., Varghese, T., Pradeep, H. D., Dietemann, V., Vedham, K., Cobb, M. and **Gadagkar, R.** (2004). Social mutilation in the Ponerine ant *Diacamma:* cues originate in the victims. *Insectes Sociaux,* 51, 410-413. https://doi.org/10.1007/s00040-004-0765-x (PDF)

189. **Gadagkar, R. (**2004). Why do honey bee workers destroy each other's eggs? *Journal of Biosciences*, 29(3), 101-105. https://doi.org/10.1007/BF02702602 (PDF)

188. Agrahari, M. and **Gadagkar, R.** (2004). Hard working nurses rather than over-aged nurses permit *Ropalidia marginata* to respond to the loss of young individuals. *Insectes Sociaux*, 51, 306-307. https://doi.org/10.1007/s00040-004-0750-4 (PDF)

187. Varghese, T., Kolatkar, M. and **Gadagkar, R.** (2004)**.** Checklist of ants in the Insect Museum.Centre for Ecological Sciences, Indian Institute of Science, Bangalore, Technical Report No.104**.**

186. **Gadagkar, R. (**2004**). (**Editor). Proceedings of the DST Workshop on "Methods in Behavioural Ecology" organised at Jawaharlal Nehru Centre, Indian Institute of Science Campus, Bangalore from 12-24 January 2004, Centre for Ecological Sciences, Technical Report No. 103**.**

185. **Gadagkar, R. (**2003). WIKO - A Veritable Incubator for Competent Radicals. Wissenschaftskolleg, Jahrbuch 2001/2002, 79-86. (PDF)

184. Kardile, S. P. and **Gadagkar, R.** (2003). Regulation of worker activity in the primitively eusocial wasp *Ropalidia cyathiformis. Behaviour*, 140, 1219-1234. https://doi.org/10.1163/156853903771980567 (PDF)

183. Karpagakunjaram, V., Nair, P., Varghese, T., Royappa, G., Kolatkar, M. and **Gadagkar, R.** (2003). Contributions to the biology of the queenless ponerine ant, *Diacamma ceylonense*. *Journal of Bombay Natural History Society,* 100 (2&3), 533-543. (PDF)

182. **Gadagkar, R. (**2003). Is the peacock merely beautiful or also honest? *Current Science*, 85 (7) 1012-1020. (PDF)

181. Sumana, A. and **Gadagkar, R.** (2003). *Ropalidia marginata* – a primitively eusocial wasp society headed by docile queens. *Current Science,* 84, 1464-1468. (PDF)

180. Agrahari, M. and **Gadagkar, R.** (2003). Juvenile hormone accelerates ovarian development and does not affect age polyethism in the primitively eusocial wasp, *Ropalidia marginata. Journal of Insect Physiology,* 49, 217-222. https://doi.org/10.1016/S0022-1910(02)00268-8 (PDF)

179. **Gadagkar, R. (**2002). Two Cultures at the Wissenschaftskolleg. Wissenschaftskolleg, Jahrbuch 2000/2001, 68-75. (PDF)

178. Cuvillier-Hot, V., **Gadagkar, R.,** Peeters, C. and Cobb, M. (2002). Regulation of reproduction in a queenless ant: aggression, pheromones and reduction in conflict. *Proc. R. Soc. Lond. B.,* 269, 1295-1300. https://doi.org/10.1098/rspb.2002.1991 (PDF)

177. Kardile, S. P. and **Gadagkar, R.** (2002). Docile sitters and active fighters in paper wasps: a tale of two queens*. Naturwissenschaften,* 89, 176-179. https://doi.org/10.1007/s00114-002-0306-2 (PDF)

176. **Gadagkar, R. (**2001). Bill Hamilton – The Greatest Darwinian Since Darwin. *Resonance – journal of science Education*, April, 4-5. (PDF)

175. **Gadagkar, R. (**2001). (Editor). Proceedings of the workshop on "Methods in Behavioural Ecology" organised at Centre for Ecological Sciences, Indian Institute of Science, Bangalore from 17 - 29 December 2001, Sponsored by the Department of Science and Technology, Centre for Ecological Sciences, Technical Report No. 91**.**

174. **Gadagkar, R. (**2001). Division of Labour and Organization of Work in the Primitively Eusocial Wasp *Ropalidia marginata*. *Proceedings of the Indian National Science Academy,* B67**,** 397-422. (PDF)

173. Gopinath, A., **Gadagkar, R.** and Rao, M.R.S. (2001). Identification of polymorphic microsatellite loci in the queenless ponerine ant *Diacamma ceylonense. Molecular Ecology Notes,* 1, 126-127. https://doi.org/10.1046/j.1471-8278.2001.00046.x (PDF)

172. Sumana, A. and **Gadagkar, R.** (2001). The structure and dominance hierarchies in the primitively eusocial wasp *Ropalidia marginata. Ethology, Ecology & Evolution,* 13**,** 273-281. https://doi.org/10.1080/08927014.2001.9522776 (PDF)

171. **Gadagkar, R. (**2000). Biology versus computers. *Current Science*, 78 (7) p.768. (PDF)

170. **Gadagkar, R. (**2000). 'Ant'ics and antibiotics. A Review of - *The Earth Dwellers – Adventures in the Land of Ants* by E. Hoyt, Simon & Schuster (1996). *Down to Earth,* 9 (3), 58-59. (PDF)

169. **Gadagkar, R. (**2000). Caring for our co-inhabitants – on the campus and beyond! Preface to the Special Issue on Biodiversity. *Journal of the Indian Institute of Science*, Vol. 80, November – December. (PDF)

168. **Gadagkar, R. (**2000). Genomic imprinting – some interesting implications for the evolution of social behaviour. *Resonance – journal of science education,* 5 (9) 58-68. https://doi.org/10.1007/BF02836218 (PDF)

167. **Gadagkar, R. (**2000). The Origin and Resolution of Conflicts in Animal Societies – The Case of the Bees and the Birds. *Resonance – journal of science education,* 5(4) 62-73. https://doi.org/10.1007/BF02837907 (PDF)

166. **Gadagkar, R. (**2000). Do our maternal and paternal genes pull us in different directions? *Current Science,* 78, 376-380. (PDF)

165. **Gadagkar, R. (**2000). The True Origin of Agriculture – Credit Goes to the Ants. *Resonance – journal of science education,* 5(2) 76-79. https://doi.org/10.1007/BF02838830 (PDF)

164. **Gadagkar, R. (**2000). (Guest Editor). Special issue on Biodiversity. *Journal of the Indian Institute of Science*, Vol. 80, November- December.

163. Fisher, B. L., Malsch, A. K. F., **Gadagkar, R**., Delabie, J.H.C., Vasconcelos, H.L. and Majer, J.D. (2000). Applying the ALL Protocol: Selected Case Studies. In: *Ants: Standard Methods for Measuring and Monitoring Biodiversity (Biology Diversity Handbook Series*). (Eds.) D. Agosti, J.D. Majer, L.E. Alonso and T.R. Schultz, Smithsonian Institution Press, Washington, pp.207-214. (PDF)

162. Naug, D. and **Gadagkar, R.** (1999). Flexible division of labor mediated by social interactions in an insect colony – a simulation model. *Journal of Theoretical Biology,* 197, 123-133. https://doi.org/10.1006/jtbi.1998.0862 (PDF)

161. **Gadagkar, R. (**1999). Caenorhabditis and the cost of sex – Reply from R. Gadagkar. *Trends in Ecology & Evolution*, 14, 33-34. https://doi.org/10.1016/S0169-5347(98)01522-5 (PDF)

160. **Gadagkar, R. (**1999). Subterranean farmers – Ants invented agriculture some 50 million years before the humans**.** *Down to Earth,* **7** (21), 48-49. (PDF)

159. **Gadagkar, R. (**1999). What is Life? – Reconsidered. A Review of – *Origins of life*, Freeman Dyson, Cambridge University Press, (1985). *Resonance – journal of science education*, 4 (2), 88-90. https://doi.org/10.1007/BF02838768 (PDF)

158. **Gadagkar, R. (**1998). The language of diversity. A Review of - *The Evolution of Social Behaviour in Insects and Arachnids* (Eds.) J.C.Choe & B.J. Crespi, Cambridge Univ. Press (1997) and *The Evolution of Mating Systems in Insects and Arachnids* (Eds.) J.C.Choe & B.J.Crespi, Cambridge Univ. Press (1997). *Trends in Ecology and Evolution,* 13,122-123. https://doi.org/10.1016/S0169-5347(97)83357-5 (PDF)

157. **Gadagkar, R. (**1998). Red ants with green beards. *Journal of Biosciences,* 23, 535-536. https://doi.org/10.1007/BF02709160 (PDF)

156. **Gadagkar, R. (**1998). Killer genes, green beards... *Down to Earth*, 7 (13), 15-16. (PDF)

155. **Gadagkar, R. (**1998). Food fighters – Why do siblings fight with each other? A look at the science behind this universally common behaviour. *Down to Earth,* 7(3), 24-25. (PDF)

154. **Gadagkar, R. (**1998). Introduction is forever – Introduced bee species may create problems for native species in India. *Down to Earth*, 6 (22), p.28. (PDF)

153. **Gadagkar, R. (**1998). Wherever they may roam – Discovering new bird and animal species just became easier. *Down to Earth*, 6(21), p.25. (PDF)

152. **Gadagkar, R. (**1998). How to gain the benefits of sexual reproduction, without paying the cost: a worm shows the way. *Trends in Ecology & Evolution, 13,* 220-221. https://doi.org/10.1016/S0169-5347(98)01391-3 (PDF)

151. **Gadagkar, R. (**1998). Biology in the 21st century – back to stamp collection? *Scampus – A bi-annual from IISc. SPRING 98*, p.5 (PDF)

150. Sathees Chandra, B.C., Geetha, L., Abraham, V.A., Karanth, P., Thomas, K., Srinivasan, M. V. and **Gadagkar, R.** (1998**).** Uniform discrimination of pattern orientation by honey bees**.** *Animal Behaviour,* 56, 1391-1398*.* https://doi.org/10.1006/anbe.1998.0922 (PDF)

149. Arathi, H. S. and **Gadagkar, R.** (1998). Cooperative nest building and brood care by nestmates and non-nestmates in *Ropalidia marginata*. *Oecologia,* 117, 295-299. https://doi.org/10.1007/s004420050661 (PDF)

148. Naug, D. and **Gadagkar, R.** (1998). The role of age in temporal polyethism in a primitively eusocial wasp. *Behavioral Ecology and Sociobiology*, 42, 37-47. https://doi.org/10.1007/s002650050409 (PDF)

147. Naug, D. and **Gadagkar, R.** (1998). Division of labor among a cohort of young individuals in a primitively eusocial wasp. *Insectes Sociaux*, 45, 247-254. https://doi.org/10.1007/s000400050085 (PDF)

146. **Gadagkar, R. (**1997) The evolution of caste polymorphism in social insects: genetic release followed by diversifying evolution. *Journal of Genetics,* 76, 167-179. https://doi.org/10.1007/BF02932215 (PDF)

145. **Gadagkar, R. (**1997). The evolution of communication and the communication of evolution: The case of the honey bee queen pheromone. In: *Orientation and Communication in Arthropods* (Ed. Miriam Lehrer), Birkhauser Verlag, Basel, pp. 375-395. https://doi.org/10.1007/978-3-0348-8878-3_13 (PDF)

144. Sunil Kumar, M., Srihari, K. T., Nair, P., Varghese, T. and **Gadagkar, R.** (1997). Ant Species Richness at selected localities of Bangalore. *Insect Environment,* 3 (1), 3-5. (PDF)

143. **Gadagkar, R. (**1997) Social evolution - has nature ever rewound the tape? *Current Science,* 72, 950-956. (PDF)

142. Arathi, H.S., Shakarad, M. and **Gadagkar, R.** (1997) Social organisation in experimentally assembled colonies of *Ropalidia marginata*: comparison of introduced and natal wasps*. Insectes Sociaux,* 44*,* 139-146. https://doi.org/10.1007/s000400050036 (PDF)

141. Rastogi, N., Nair, P., Kolatkar, M., William, H. and **Gadagkar, R.** (1997). Ant fauna of the Indian Institute of Science Campus - Survey and some preliminary observations. *The Journal of the Indian Institute of Science,* 77, 133-140. (PDF)

140. Rastogi, N., Nair, P., Kolatkar, M. and **Gadagkar, R.** (1997). Foraging strategies in the ants *Myrmicari brunnea* and *Diacamma ceylonense* - some preliminary observations. *Entomon,* 22, 79-81. (PDF)

139. Arathi, H.S., Shakarad, M. and **Gadagkar, R.** (1997). Factors Affecting the Acceptance of Alien Conspecifics on Nests of the Primitively Eusocial Wasp, *Ropalidia marginata* (Hymenoptera*:* Vespidae*). Journal of Insect Behavior,* 10, 343-353. https://doi.org/10.1007/BF02765602 (PDF)

138. Shakarad, M. and **Gadagkar, R.** (1997). Do Social Wasps Choose Nesting Strategies Based on Their Brood Rearing Abilities? *Naturwissenschaften,* 84, 79-82*.* https://doi.org/10.1007/s001140050353 (PDF)

137. **Gadagkar, R. (**1997). (Guest Editor). Special Section on Evolutionary Ecology. *Current Science*, Vol. 72, 25th June 1997.

136 **Gadagkar, R. (**1997). The evolution of altruism and selfishness in insects. Platinum Jubilee Lecture delivered during the Indian Science Congress on 6th January 1997, Delhi. Centre for Ecological Sciences, Indian Institute of Science, Bangalore, Technical Report No.75**.**

135. Chandra, B. C. S., Geetha, L., Abraham, V. A., Karanth, P., Thomas, K. and **Gadagkar, R.** (1996). Visual discrimination of pattern orientation in the Asian honeybee *Apis cerana*. Centre for Ecological Sciences, Indian Institute of Science, Bangalore, Technical Report No.73**.**

134. **Gadagkar, R. (**Editor). (1996). Proceedings of the workshop on "Methods in Behavioural Ecology" organised at Centre for Ecological Sciences, Indian Institute of Science, Bangalore from 7 - 19 October 1996, Sponsored by the Department of Science and Technology, Technical Report No. 74**.**

133. **Gadagkar, R. (**1996). A Review of - *The Coevolutionary Process* by John N. Thompson, The University of Chicago Press, Chicago, (1994). *Tropical Ecology,* **37**, 147-148. (PDF)

132. **Gadagkar, R. (**1996). The Making of a Scientist - A Life Worthy of Admiration and Imitation. A Review of – *Naturalist* by E.O.Wilson, Island Press/Shearwater Books, Washington D.C. (1994). *Resonance - journal of science education,* 1 (4), 87-89. https://doi.org/10.1007/BF02896209 (PDF)

131. **Gadagkar, R. (**1996). Africans in the Americas: A Problem? A Cool Objective Assessment of the Killer Bee Problem. A Review of - *Killer Bees - The Africanized Honey Bee in the Americas* by Mark L. Winston, Harvard University Press, Cambridge, Massachusetts, (1992). *Resonance - journal of science education*, 1 (2), 117-119. https://doi.org/10.1007/BF02835711 (PDF)

130. **Gadagkar, R. (**1996). What's the essence of royalty – one keto group? *Current Science,* 71, 975-980. (PDF)

129. **Gadagkar, R. (**1996). Molecular Techniques in the Study of Organismic Biology – Challenges and Opportunities. In: *Biotechnological Perspectives in Chemical Ecology of Insects*. (Ed.) T.N. Ananthakrishnan, Oxford and IBH Publishing Co. Pvt. Ltd, New Delhi, pp. 265-275. (PDF)

128. Premnath, S., Sinha, A. and **Gadagkar, R.** (1996). Dominance relationship in the establishment of reproductive division of labour in a primitively eusocial wasp *(Ropalidia marginata)*. *Behavioral Ecology and Sociobiology,* 39, 125-132. https://doi.org/10.1007/s002650050274 (PDF)

127. **Gadagkar, R. (**1996). The evolution of eusociality, including a review of the social status of *Ropalidia marginata*. *In: Natural History and Evolution of Paper-Wasps,* (Eds.) S. Turillazzi and M.J. West-Eberhard, Oxford University Press, Oxford, pp. 248-271. (PDF)

126. Premnath, S., Sinha, A. and **Gadagkar, R.** (1996). How is colony activity regulated in *Ropalidia marginata?* In: *Readings in Behaviour*, (Eds.) R. Ramamurthi & Geethabali, New Age International Limited, New Delhi, pp.160-167. (PDF)

125. Shakarad, M. and **Gadagkar, R.** (1996). Why are there multiple-foundress colonies in *Ropalidia marginata?* In: *Readings in Behaviour*, (Eds.) R.Ramamurthi & Geethabali, New Age International Limited, New Delhi, pp.145-152. (PDF)

124. Arathi, H.S. and **Gadagkar, R.** (1996). Can genetically unrelated individuals join colonies of *Ropalidia marginata?* In: *Readings in Behaviour*, (Eds.) R. Ramamurthi & Geethabali, New Age International Limited, New Delhi, pp.153-159. (PDF)

123. **Gadagkar, R. (**1996). The Pains and Pleasures of doing ethology in India. In: *Readings in Behaviour*, (Eds.) R. Ramamurthi & Geethabali, New Age International Limited, New Delhi, pp.1-13. (PDF)

122. **Gadagkar, R. (**1996). Complex behaviour in Social Wasps - Towards a scientific study. In: *Readings in Behaviour*, (Eds.) R. Ramamurthi & Geethabali, New Age International Limited, New Delhi, pp.135-144. (PDF)

121. **Gadagkar, R. (**1996). Sharing the blame. *Down to Earth,* 5 (11), 24-26. (PDF)

120. **Gadagkar, R. (**1996). Konrad Lorenz – father to ethology and mother to ducks, geese, jackdaws, salamanders, fish and many more! *Resonance - journal of science education*, 1 (6), 2-3. https://doi.org/10.1007/BF02834360 (PDF)

119. **Gadagkar, R. (**1996). Evolution of an insect society – II. The data. *The Insectarium*, 33, 18-23. (in Japanese). (PDF)

118. **Gadagkar, R. (**1996). Evolution of an insect society – I. The ideas. *The Insectarium*, 33, 4-9. (in Japanese). (PDF)

117. **Gadagkar, R. (**1996)**.** Exploring Japan ecologically. *Down to Earth,* 4 (22), 22-23. (PDF)

116. Geetha, L. and **Gadagkar, R.** (1996). How does a fungus know the time of day? *Current Science,* 70, 419-421. (PDF)

115. **Gadagkar, R.** and Kolatkar, M. (1996). Evidence for Avian Mafia! *Current Science, 70,* 115-117. (PDF)

115a. **Gadagkar, R.** and Kolatkar, M. (1996). Evidence for Bird Mafia! Threat Pays. *Resonance - journal of science education.* 1(5), 82-84. (An Abridged version of the above). https://doi.org/10.1007/BF02835173 (PDF)

114. **Gadagkar, R. (**1996). The Honeybee Dance-Language Controversy - Robot Bee Comes to the Rescue. *Resonance - journal of science education*, 1 (1), 63-70. https://doi.org/10.1007/BF02838860 (PDF)

113. **Gadagkar, R. (**1995). Cooperation and conflict in an insect society. *The Journal of the Indian Institute of Science, 75,* 333-352. (PDF)

112. Shakarad, M. and **Gadagkar, R.** (1995). Colony founding in the primitively eusocial wasp, *Ropalidia marginata* (Hymenoptera: Vespidae). *Ecological Entomology, 20*, 273- 282. https://doi.org/10.1111/j.1365-2311.1995.tb00457.x (PDF)

111. Venkataraman, A. B. and **Gadagkar, R.** (1995). Age-Specific Acceptance of Unrelated Conspecifics on Nests of the Primitively Eusocial Wasp, *Ropalidia marginata*. *Proceedings of the Indian National Science Academy, B61*, 299-314. (PDF)

110. Premnath, S., Sinha, A. and **Gadagkar, R.** (1995). Regulation of worker activity in a primitively eusocial wasp, *Ropalidia marginata*. *Behavioral Ecology, 6,* 117-123. https://doi.org/10.1093/beheco/6.2.117 (PDF)

109. Lehrer, M., Horridge, G. A., Zhang, S. W. and **Gadagkar, R.** (1995). Shape vision in bees: innate preference for flower-like patterns. *Philosophical Transactions of the Royal Society of London, 347,* 123-137. https://doi.org/210.1098/rstb.1995.0017 (PDF)

108. **Gadagkar, R. (**1995). Observational study of animal behaviour: From instinct to intelligence. *Current Science, 68,* 185-196. (PDF)

107. Tandon, P.N. and **Gadagkar, R.** (Guest Editors). Neuroscience - A multidisciplinary approach. Special issue of *Current Science,* Vol. 68, 25th January 1995.

106. **Gadagkar, R. (**1995). Conservation Pays....*Down to Earth,* 4 (14), 47-48. (PDF)

105. **Gadagkar, R. (**1995). Honey, I got the bees right! *Times of India*, July 18th. (PDF)

104. **Gadagkar, R. (**1995). Can animals count? *Current Science, 68,* 1180-1182. (PDF)

103. **Gadagkar, R.** and Arathi, H.S. (1995). Complex domestic conflicts in a bird family. *Current Science, 68,* 676-677. (PDF)

102. Chandrashekara, K. and **Gadagkar, R.** (1995). A Review of - *Functional Dynamics of Phytophagous Insects*. (Ed.) T.N. Ananthakrishnan, Oxford and IBH, New Delhi (1994). *Current Science, 69*, 470-471. (PDF)

101. **Gadagkar, R. (**1994). Spiteful animals still to be discovered - a reply to Keller *et al. Trends in Ecology & Evolution, 9,* p.103. https://doi.org/10.1016/0169-5347(94)90206-2 (PDF)

100. **Gadagkar, R. (**1994). A Review of - *Behaviour and Social Evolution of Wasps: The Communal Aggregation Hypothesis*. Yosiaki Itô. (Eds. R.M. May, P.H. Harvey), Oxford University Press, Oxford (1993). *The Quarterly Review of Biology, 69,* 558-559. (PDF)

99. **Gadagkar, R. (**1994). A Review of - *The Natural History of Inbreeding and Outbreeding: Theoretical and Empirical Perspectives*. (Ed. N.W. Thornhill), The University of Chicago Press, Chicago (1993). *Tropical Ecology, 35,* 349-352. (PDF)

98. **Gadagkar, R. (**1994). Social Insect Buffs Swarm in Paris and decide to go to Adelaide. *IUSSI Indian Chapter, Newsletter, 8* (1,2), 4-5. (PDF)

97. Premnath, S., Sinha, A. and **Gadagkar, R.** (1994). Dominance behaviour and the resolution of intra-colonial conflicts in the primitively eusocial wasp, *Ropalidia marginata*. In: *Les Insectes Sociaux* (Eds.) A. Lenoir, G. Arnold and M. Lepage. *Proceedings of the 12 Congress of the International Union for the Study of Social Insects* IUSSI, Paris, Sorbonne 21- 27 August 1994, Universite Paris Nord, p. 242. (PDF)

96. **Gadagkar, R. (**1994). The Evolution of Eusociality. In: *Les Insectes Sociaux* (Eds.) A. Lenoir, G. Arnold and M. Lepage. *Proceedings of the 12th Congress of the International Union for the Study of Social Insects* IUSSI, Paris, Sorbonne 21-27 August 1994, Universite Paris Nord, pp. 10-12. (PDF)

95. Kirchner, W. H. and **Gadagkar, R.** (1994). Discrimination of nestmate workers and drones in honeybees. *Insectes Sociaux, 41,* 335-338. https://doi.org/10.1007/BF01242306 (PDF)

94. **Gadagkar, R. (**1994). Why the definition of eusociality is not helpful to understand its evolution and what should we do about it. *Oikos, 70,* 485-488. https://doi.org/10.2307/3545789 (PDF)

93. **Gadagkar, R.**, and Bonner, J.T. (1994). Social insects and social amoebae. *Journal of Biosciences, 19,* 219-245. https://doi.org/10.1007/BF02703057 (PDF)

92. **Gadagkar, R. (**1994). The Evolution of Altruism in Insects - A Case Study. *In: Perspectives In Entomological Research* (Ed. O.P. Agarwal). Scientific Publishers, Jodhpur, pp. 263-275. (PDF)

91. **Gadagkar, R. (**1993). A Review of - *Chemical Ecology of Phytophagous Insects.* (Eds.) T.N. Ananthakrishnan & A. Raman, Oxford and IBH Publishing Co. Pvt. Ltd, New Delhi, *Phytophaga, 5*, 135-137. (PDF)

90. **Gadagkar, R. (**1993). My Vacation with *Apis mellifera*. *IUSSI Indian Chapter, Newsletter,* 7 (1,2), 3-4. (PDF)

89. **Gadagkar, R. (**1993). Western scientists set the trends. *Down to Earth*, 2(7), 45-46. (PDF)

88. **Gadagkar, R. (**1993). Bed and breakfast available, only for a year. *Down to Earth*, 2(3), 46-47. (PDF)

87. **Gadagkar, R. (**1993). And now..... eusocial thrips! *Current Science,* 64, 215-216. (PDF)

86. **Gadagkar, R. (**1993). Persistence helps masquerading ant raiders. *Down to Earth*, 1(20), p.45. (PDF)

85. **Gadagkar, R. (**1993). Can Animals Be Spiteful? *Trends in Ecology and Evolution, 8,* 232-234. https://doi.org/10.1016/0169-5347(93)90196-V (PDF)

84. **Gadagkar, R.**, Nair, P., Chandrashekara, K. and Bhat, D.M. (1993). Ant species richness and diversity in some selected localities of Western Ghats, India. *Hexapoda, 5*, 79-94. (PDF)

84a. **Gadagkar, R**., Nair, P., Chandrashekara, K., Bhat, D. M. (2000). Ants species diversity in the Western Ghats, India. In: *Sampling Ground-dwelling Ants: Case Studies from the World's Rain Forests*. (Eds.) D. Agosti, J. Majer, L. Alonso, and T. Schultz, Curtin University, School of Environmental Biology, Bulletin No.18, Perth, Australia, pp.19-30. [An abridged version of the above]. (PDF)

83. **Gadagkar, R.**, Chandrashekara, K., Chandran, S. and Bhagavan, S. (1993). Queen success is correlated with worker-brood genetic relatedness in a primitively eusocial wasp (*Ropalidia marginata*). *Experientia, 49*, 714-717. (PDF)

82. Venkataraman, A.B. and **Gadagkar, R.** (1993). Differential aggression towards alien conspecifics in a primitively eusocial wasp. *Current Science, 64,* 601-603. (PDF)

81. **Gadagkar, R.**, Chandrashekara, K., Chandran, S., and Bhagavan, S. (1993). Serial polygyny in the primitively eusocial wasp *Ropalidiamarginata*: implications for the evolution of sociality. *In: Queen Number and Sociality in Insects*. (Ed. L. Keller), Oxford University Press, Oxford, pp. 188-214. (PDF)

80. Sinha, A., Premnath, S., Chandrashekara, K. and **Gadagkar, R.** (1993). *Ropalidia rufoplagiata*: a polistine wasp society probably lacking permanent reproductive division of labour. *Insectes Sociaux, 40*, 69-86. https://doi.org/10.1007/BF01338833 (PDF)

79. **Gadagkar, R.**, Roubik, D.W., Inoue, T., Ashton, P. S. and Chandrashekaran, M.K. (Editors) (1993). Diversity and Flexibility of Biotic Communities in Fluctuating Environments – Preface. Special issue of *Journal of Biosciences*, Vol.18 (4), p.423.

78. **Gadagkar, R. (**1992). "What is Life?" - Reconsidered. A Review of - *Origins of Life* by Freeman Dyson, Cambridge University Press, Cambridge. *Bulletin of Sciences,* 6(4*),* 44-45. (PDF)

77. **Gadagkar, R. (**1992). New Agenda for social insect research. A Review of - *Success and Dominance in Ecosystems: The Case of the Social Insects* by E.O. Wilson, Ecology Institute, Germany. *Current Science, 62*, 317-318. (PDF)

76. **Gadagkar, R. (**1992). The Origin and Evolution of social life in insects. *Bulletin of Sciences,* 6(2), 31-35.

75. **Gadagkar, R. (**1992). Growing old in the wild. *Down to Earth*, 1(15), 46-47. (PDF)

74. **Gadagkar, R. (**1992). World's biodiversity needs to be preserved. *Down to Earth*, 1(11), 43-44. (PDF)

73. **Gadagkar, R. (**1992). Disease and Social Evolution. *Current Science, 63*, 285-286. (PDF)

72. **Gadagkar, R. (**1992). When fathers harass their sons. *Down to Earth*, 1(8), 47-48. (PDF)

71. Venkataraman, A. and **Gadagkar, R.** (1992). Kin recognition in a semi-natural context: Behaviour towards foreign conspecifics in the social wasp *Ropalidia marginata* (Lep.) (Hymenoptera: Vespidae). *Insectes Sociaux, 39*, 285-299. https://doi.org/10.1007/BF01323949 (PDF)

70. Chandrashekara, K. and **Gadagkar, R.** (1992). Queen Succession in the Primitively Eusocial Tropical Wasp *Ropalidia marginata* (Lep.) (Hymenoptera: Vespidae). *Journal of Insect Behaviour, 5*, 193-209. https://doi.org/10.1007/BF01049289 (PDF)

69. **Gadagkar, R. (**Editor) (1992). Workshop on "Methods in Behavioural Ecology" organised at Centre for Ecological Sciences, Indian Institute of Science, from 12th - 26th October 1992, Sponsored by Department of Science and Technology. Technical Report No.24 (unpublished)**.**

68. **Gadagkar, R. (**1992). The Magnitude of the Earth's Biodiversity. In: Proceedings of the Training Programme on Management of Environment. (Eds.) D.K. Subramanian, T.V. Ramachandra, and P.R. Bhat, Centre for Ecological Sciences, Indian Institute of Science, Bangalore, Technical Report No.65. pp. 58-71 (unpublished)**.**

67. **Gadagkar, R. (**1991). Demographic predisposition to the evolution of eusociality: A hierarchy of models. *Proceedings of the National Academy of Sciences, U.S.A., 88*, 10993-10997. (PDF)

66. **Gadagkar, R.**, Chandrashekara, K., Chandran, S. and Bhagavan, S. (1991). Worker-Brood Genetic Relatedness in a Primitively Eusocial Wasp - a pedigree analysis. *Naturwissenschaften, 78*, 523-526. https://doi.org/0.1007/BF01131405 (PDF)

65. **Gadagkar, R.**, Bhagavan, S., Chandrashekara, K., and Vinutha, C. (1991). The role of larval nutrition in pre-imaginal biasing of caste in the primitively eusocial wasp *Ropalidia* (Hymenoptera: Vespidae) *Ecological Entomology, 16*, 435-440. https://doi.org/10.1111/j.1365-2311.1991.tb00236.x (PDF)

64. **Gadagkar, R.**, Bhagavan, S., Malpe, R. and Vinutha, C. (1991). Seasonal variation in the onset of egg laying in a primitively eusocial wasp: Implications for the evolution of sociality. *Entomon, 16*, 167-174. (PDF)

63. Chandrashekara, K. and **Gadagkar, R.** (1991). Unmated Queens in the primitively eusocial wasp *Ropalidia marginata* (Lep.) (Hymenoptera: Vespidae). *Insectes Sociaux, 38,* 213-216. https://doi.org/10.1007/BF01240971 (PDF)

62. **Gadagkar, R**.(1991). *Belonogaster, Mischocyttarus, Parapolybia,* and Independent-founding *Ropalidia*. In: *The Social Biology of wasps*. (Eds.) K.G. Ross and R.W. Matthews. Cornell University Press, Ithaca, New York, pp.149-190. (PDF)

61. **Gadagkar, R. (**1991). On testing the role of genetic asymmetries created by haplodiploidy in the evolution of eusociality in the Hymenoptera. *Journal of Genetics, 70*, 1-31. https://doi.org/10.1007/BF02927973 (PDF)

60. Chandrashekara, K. and **Gadagkar, R.** (1991). Behavioural Castes, Dominance and Division of Labour in a Primitively Eusocial Wasp. *Ethology, 87*, 269-283. https://doi.org/10.1111/j.1439-0310.1991.tb00252.x (PDF)

59. **Gadagkar, R. (**1991). More gene wars. *Current Science, 61*, 795. (Scientific Correspondence). (PDF)

58. **Gadagkar, R. (**1991). The origin and evolution of social life in insects. (in Japanese) *ANIMA, 9 (228)*, 48-52, August 1991. (PDF)

57. **Gadagkar, R.** and Venkataraman, A.B. (1990). Nepotistic bee-eaters. *Current Science*, *59*, 445-446. (PDF)

56. **Gadagkar, R. (**1990). Genetic Diversity and Evolution. In: *Proceedings MAB Regional Training Workshop Trop. For. Ecosyst. Conserv. Develop. S & S E Asia.* (Eds.) K.K.N. Nair, K.V. Bhat, J.K. Sharma & K. Swarupanandan, Kerala Forest Research Institute, Peechi, Kerala, India, pp. 3-16. (PDF)

55. **Gadagkar, R. (**1990). A test of the role of haplodiploidy in the evolution of Hymenopteran eusociality. In: *Social Insects and the environment*. (Eds.) G.K. Veeresh, B. Mallik, C.A. Viraktamath. Proceedings of 11th International Congress of IUSSI, Bangalore, India, August, 1990, Oxford & IBH Publishing Co.Ltd., New Delhi. pp. 539 - 540. (PDF)

54. **Gadagkar, R.**, Chandrashekara, K., Chandran, S. and Bhagavan, S. (1990). Serial polygyny in *Ropalidia marginata*: Implications for the evolution of eusociality. In: *Social Insects and the Environment*. (Eds.) G.K. Veeresh, B. Mallik, C.A. Viraktamath. Proceedings of 11th International Congress of IUSSI, Bangalore, India, August, 1990, Oxford & IBH Publishing Co.Ltd. New Delhi. pp. 227 - 228. (PDF)

53. Chandrashekara, K., Bhagavan, S., Chandran, S., Nair, P. and **Gadagkar, R.** (1990). Perennial indeterminate colony cycle in a primitively eusocial wasp. In: *Social Insects and the Environment*. (Eds.) G.K. Veeresh, B. Mallik, C.A. Viraktamath. Proceedings of 11th International Congress of IUSSI, Bangalore, India, August, 1990, Oxford & IBH Publishing Co. Ltd. New Delhi. p.81. (PDF)

52. Premnath, S., Chandrashekara, K., Chandran, S. and **Gadagkar, R.** (1990). Constructing Dominance hierarchies in a primitively eusocial wasp. In: *Social Insects and the Environment*. (Eds.) G.K. Veeresh, B. Mallik, C.A. Viraktamath. Proceedings of 11th International Congress of IUSSI, Bangalore, India, August, 1990, Oxford & IBH Publishing Co.Ltd., New Delhi. p.80. (PDF)

51. Nair, P., Bose, P. and **Gadagkar, R.** (1990). The determinants of dominance in a primitively eusocial wasp. In: *Social Insects and the Environment*. (Eds.) G.K. Veeresh, B. Mallik, C.A. Viraktamath. Proceedings of 11th International Congress of IUSSI, Bangalore, India, August, 1990, Oxford & IBH Publishing Co.Ltd., New Delhi. p.79. (PDF)

50. Chandran, S. and **Gadagkar, R.** (1990). Social organisation in laboratory colonies of *Ropalidia marginata*. In: *Social Insects and the Environment*. (Eds.) G.K. Veeresh, B. Mallik, C.A. Viraktamath. Proceedings of 11th International Congress of IUSSI, Bangalore, India, August, 1990, Oxford & IBH Publishing Co.Ltd., New Delhi. p.78. (PDF)

49. Chandrashekara, K. and **Gadagkar, R.** (1990). Evolution of eusociality: Lessons from social organization in *Ropalidia marginata* (Lep.) (Hymenoptera:Vespidae). In: *Social Insects and the Environment*. (Eds.) G.K. Veeresh, B. Mallik, C.A. Viraktamath. Proceedings of 11th International Congress of IUSSI, Bangalore, India, August, 1990, Oxford & IBH Publishing Co.Ltd., New Delhi. pp.73–74. (PDF)

48. Venkataraman, A.B. and **Gadagkar, R.** (1990). Evolution of Eusociality : Lessons from the mechanism of nestmate discrimination in the primitively eusocial wasp *Ropalidia marginata*. In: *Social Insects and the Environment*. (Eds.) G.K. Veeresh, B. Mallik, C.A. Viraktamath. Proceedings of 11th International Congress of IUSSI, Bangalore, India, August, 1990, Oxford & IBH Publishing Co.Ltd., New Delhi. pp. 71-72. (PDF)

47. **Gadagkar, R. (**1990). Social biology of *Ropalidia*: Investigations into the origins of eusociality. In: *Social Insects and the Environment*. (Eds.) G.K. Veeresh, B. Mallik & C.A. Viraktamath. Proceedings of 11th International Congress of IUSSI, Bangalore, India, Oxford & IBH Publishing Co.Ltd., New Delhi. pp. 9 - 11. (PDF)

46. Venkataraman, A.B., Swarnalatha, V.B., Nair, P., Vinutha, C. and **Gadagkar, R.** (1990). Nestmate discrimination in the social wasp *Ropalidia marginata*. In: *Social Insects: An Indian Perspective*. (Eds.) G.K. Veeresh, A.R.V. Kumar & T. Shivashankar, IUSSI - Indian Chapter, Bangalore, pp. 161 - 171. (PDF)

45. Chandrashekara, K. and **Gadagkar, R.** (1990). Behavioural castes and their correlates in the primitively eusocial wasp, *Ropalidia marginata* (Lep.) (Hymenoptera: Vespidae). In: *Social Insects : An Indian Perspective*. (Eds.) G.K. Veeresh, A.R.V. Kumar & T. Shivashankar, IUSSI - Indian Chapter, Bangalore, pp. 153 - 160. (PDF)

44. **Gadagkar, R. (**1990). Evolution of insect societies: Some insights from studying tropical wasps. In: *Social Insects: An Indian Perspective*. (Eds.) G.K.Veeresh, A.R.V. Kumar & T.Shivashankar, IUSSI - Indian Chapter, Bangalore, pp. 129 - 152. (PDF)

43. **Gadagkar, R.**, Chandrashekara, K. and Nair, P. (1990). Insect species diversity in tropics: Sampling methods and a case study. *Journal of the Bombay Natural History Society*, *87*, 337-353. (PDF)

42. **Gadagkar, R. (**1990). Origin and evolution of eusociality: A perspective from studying primitively eusocial wasps. *Journal of Genetics*, *69*, 113-125. (PDF)

41. **Gadagkar, R. (**1990). Evolution of eusociality : the advantage of assured fitness returns. *Philosophical Transactions of the Royal Society of London B*, *329*, 17-25. https://doi.org/10.1098/rstb.1990.0146 (PDF)

40. **Gadagkar, R. (**1990). The haplodiploidy threshold and social evolution. *Current Science*, *59*, 374 - 376. (PDF)

39. **Gadagkar, R.**, Bhagavan, S., Malpe, R. and Vinutha, C. 1990). On reconfirming the evidence for pre-imaginal caste bias in a primitively eusocial wasp. *Proceedings of the Indian Academy of Sciences (Animal Sciences)*, *99*, 141-150. https://doi.org/10.1007/BF03186384 (PDF)

38. **Gadagkar, R. (**1989). In Praise of Birds. *Deccan Herald*, Bangalore, August 20. (PDF)

37. **Gadagkar, R. (**1989). An undesirable property of Hill's diversity index N_2. *Oecologia*, *80*, 140-141. https://doi.org/10.1007/BF00789944 (PDF)

36. **Gadagkar, R. (**1988). A Review of - *Semiochemistry, flavours and pheromones*. Proceedings of the American Chemical Society Symposium, Washington, D.C., USA, August 1993, (Eds. T.E. Acree & D.M. Soderlund,) Walde de Gruyter, Berlin (1985). *Journal of the Indian Institute of Science*, *68*, 72-76. (PDF)

35. Venkataraman, A.B., Swarnalatha, V.B., Nair, P. and **Gadagkar, R.** (1988). The mechanism of nestmate discrimination in the tropical social wasp *Ropalidia marginata* and its implications for the evolution of sociality. *Behavioral Ecology and Sociobiology*, *23,* 271-279. https://doi.org/10.1016/S0022-1910(02)00268-8 (PDF)

34. **Gadagkar, R.**, Vinutha, C., Shanubhogue, A. and Gore, A.P. (1988). Pre-imaginal biasing of caste in a primitively eusocial insect. *Proceedings of the Royal Society of London B*, *233,* 175-189. https://doi.org/10.1098/rspb.1988.0017 (PDF)

33. **Gadagkar, R. (**1988). The Genetic Basis of Behaviour. *IUSSI Indian Chapter*, *Newsletter* 2 (2*)*, 4-5. (PDF)

32. **Gadagkar, R. (**1988). Kin recognition in social insects. *IUSSI Indian Chapter, Newsletter*2 (1*)*, 4-5. (PDF)

31. **Gadagkar, R.** and Gadagkar, V. R. (1988). The Amazing World of the Honey Bees. *Vijnana Parichaya,* 10 (3), 4-8. (PDF)

30. **Gadagkar, R. (**1987). What are Social Insects? *IUSSI Indian Chapter*, *Newsletter* 1 (2), 3-4. (PDF)

29. **Gadagkar, R. (**1987). Social Structure and the Determinants of Queen Status in the Primitively Eusocial Wasp *Ropalidia cyathiformis*. In: *Chemistry and Biology of Social Insects*. Proceedings of X International Congress IUSSI, Munich (Eds.) J. Eder and H. Rembold, Verlag J Peperny, Munich, pp. 377-378. (PDF)

28. **Gadagkar, R. (**1987). Biotechnology and the future of biological diversity. In: First Asian school on conservation biology, December 16 - 31, 1987. Lecture notes & Abstracts. Centre for Ecological Sciences, Indian Institute of Science, Bangalore, Technical Report No. 50, pp. 38.1 - 38.3**.**

27. **Gadagkar, R. (**1987). Immigrations, extinctions and species diversity. In: First Asian school on conservation biology, December 16-31, 1987. Lecture notes & Abstracts. Centre for Ecological Sciences, Indian Institute of Science, Bangalore, Technical Report No. 50, pp. 16.1 - 16.6**.**

26. **Gadagkar, R. (**1987). Patterns of Biological Species Diversity I & II. In: First Asian school on conservation biology, December 16-31, 1987. Lecture notes

& Abstracts. Centre for Ecological Sciences, Technical Report No. 50, pp. 11.1 - 11.11**.**

25. **Gadagkar, R. (**1987). Diversity at the level of genome. In: *First Asian school on conservation Gadagkar, R. (biology)*, December 16-31, 1987. Lecture notes & Abstracts. Centre for Ecological Sciences, Indian Institute of Science, Bangalore, Technical Report No.50, pp. 5.1 - 5.2**.**

24. **Gadagkar, R. (**1986). Outlines of lectures given at the First National School on Conservation Biology, Centre for Ecological Sciences, Indian Institute of Science, Bangalore, Technical Report No.39**.**

23. Bhat, D. M., Chandrashekara, K., Daniels, R.J.R., **Gadagkar, R.**, Gadgil, M., Hegde, M., Nair, P., Prasad, N. S. and Saldanha, C.J. (1986). Biological Species Diversity in some localities in Western Ghats. Centre for Ecological Sciences, Indian Institute of Science, Bangalore, Centre for Ecological Sciences, Technical Report No.33**.**

22. Muralidharan, K., Shaila, M.S. and **Gadagkar, R.** (1986). Evidence for multiple mating in the primitively eusocial wasp *Ropalidia marginata* (Lep.) (Hymenoptera : Vespidae). *Journal of Genetics*, *65*, 153-158. https://doi.org/10.1007/BF02931148 (PDF)

21. **Gadagkar, R.** (1985). Kin recognition in social insects and other animals - A review of recent findings and a consideration of their relevance for the theory of kin selection. *Proceedings of the Indian Academy of Sciences (Animal Sciences)*, *94*, 587-621. https://doi.org/10.1007/BF03191863 (PDF)

20. Joshi, N.V. and **Gadagkar, R.** (1985). Evolution of sex ratios in social hymenoptera: kin selection, local mate competition, polyandry and kin recognition. *Journal of Genetics*, *64*, 41-58. https://doi.org/10.1007/BF02923552 (PDF)

19. **Gadagkar, R. (**1985). Evolution of insect sociality - A review of some attempts to test modern theories. *Proceedings of the Indian Academy of Sciences (Animal Sciences)*, *94*, 309-324. https://doi.org/10.1007/BF03186272 (PDF)

18. **Gadagkar, R.** and Joshi, N.V. (1985). Colony fission in a social wasp. *Current Science*, *54*, 57-62. (PDF)

17. Chandrashekara, K., Daniels, R.J.R. and **Gadagkar, R.** (1984). Animal Species Diversity in the Western Ghats. Centre for Ecological Sciences, Indian Institute of Science, Bangalore, Technical Report No.5**.**

16. **Gadagkar, R.** and Joshi, N.V. (1984). Social Organisation in the Indian Wasp *Ropalidia cyathiformis* (Fab.) (Hymenoptera: Vespidae). *Zeitschift Tierpsychol*., *64*, 15-32. https://doi.org/10.1111/j.1439-0310.1984.tb00350.x (PDF)

15. **Gadagkar, R.** and Joshi, N.V. (1983). Quantitative ethology of social wasps: Time-activity budgets and caste differentiation in *Ropalidia marginata* (Lep.)

(Hymenoptera: Vespidae). *Animal Behaviour*, *31*, 26-31. https://doi.org/10.1016/S0003-3472(83)80170-5 (PDF)

14. **Gadagkar, R.** and Joshi, N.V. (1982). A Comparative Study of Social Structure in Colonies of *Ropalidia*. In: *The Biology of Social Insects*, (Eds.) M.D. Breed, C. D. Michener and H. E. Evans. Proceedings of the Ninth Congress of the International Union for the Study of Social Insects, Boulder, Colorado, August 1982, Westview press, Boulder, Colorado, pp.187-191. (PDF)

13. **Gadagkar, R.**, Gadgil, M., and Mahabal, A.S. (1982). Observations on population ecology and sociobiology of the paper wasp *Ropalidia marginata* (Lep.) (Family:Vespidae). *Proceedings of the Symposium on Ecology and Animal Population, Zoological Survey of India*, pp. 49-61. (PDF)

12. **Gadagkar, R.** and Joshi, N.V. (1982). Behaviour of the Indian social wasp *Ropalidia cyathiformis* on a nest of separate combs (Hymenoptera: Vespidae). *Journal of The Zoological Society of London*, *198*, 27-37. (PDF)

11. **Gadagkar, R.**, Gadgil, M., Joshi, N.V. and Mahabal, A.S. (1982). Observations on the natural history and population ecology of the social wasp *Ropalidia marginata* (Lep.) from peninsular India (Hymenoptera: Vespidae). *Proceedings of the Indian Academy of Sciences (Animal Sciences)*, *91*, 539-552. https://doi.org/10.1007/BF03186154 (PDF)

10. **Gadagkar, R.**, Nanjundiah, V., Joshi, N.V. and Sharat Chandra, H. (1982). Dosage compensation and sex determination in *Drosophila* : Mechanism of measurement of the X/A ratio. *Journal of Biosciences*, *4*, 377-390. https://doi.org/10.1007/BF02702750 (PDF)

9. **Gadagkar, R.**, Nanjundiah, V., Joshi, N.V. and Sharat Chandra, H. (1981). Measurement of the ratio of the number of X chromosomes to sets of autosomes in *Drosophila melanogaster*. *Current Science*, *50*, 805-807. (PDF)

8. **Gadagkar, R. (**1980). Dominance hierarchy and division of labour in the social wasp, *Ropalidia marginata* (Lep.) (Hymenoptera: Vespidae) *Current Science*, *49*, 772-775. (PDF)

7. **Gadagkar, R.** and Gopinathan, K.P. (1980). Growth of *Mycobacterium smegmatis* in minimal and complete media. *Journal of Biosciences*, *2*, 337-348 https://doi.org/10.1007/BF02716867 (PDF)

6. **Gadagkar, R.** and Gopinathan, K.P. (1980). Bacteriophage burst size during multiple infections. *Journal of Biosciences*, *2*, 253-259. https://doi.org/10.1007/BF02703251 (PDF)

5. **Gadagkar, R. (**1980). Seminar on evolution of social behaviour. *Journal of Scientific Industrial Research*, 39, 298-301. (PDF)

4. Gadgil, M., Joshi, N.V., **Gadagkar, R.,**Nanjundiah, V. and Gadgil, S. (1979). Evolution of Social Behaviour - A Primer, *Mimeo* (unpublished)**.**

3. **Gadagkar, R.** and Gupta, G. (1979). A nick free solution to the DNA winding problem - Round-up of research, *Science Today*, 13 (15), December, p.33.

2. Gopinathan, K.P., Saroja, D., **Gadagkar, R.** and Ramakrishnan, T. (1978). Control of lysogeny in mycobacteria. In: *Genetics of Actinomycetales*. (Eds.) E. Freerksen, I. Tarnok and J.H. Thumim. Gustav, Fisher Verlag, pp.237–242. (PDF)

1. **Gadagkar, R.** and Gopinathan, K.P. (1978). Inhibition of DNA injection from mycobacteriophage I3 by Tween-80. *Virology*, 91, 487-488. (PDF)