

CURRICULUM VITAE: PROFESSOR IR DR MOHD SAPUAN SALIT



Current post: Professor of Composite Materials Grade: “A”

Head of Advanced Engineering Material Composites Research Centre (AEMC),
Department of Mechanical and Manufacturing Engineering, Universiti Putra Malaysia
(UPM), 43400 UPM Serdang, Selangor, Malaysia

Chief Executive Editor of Pertanika journals, UPM Press, Universiti Putra Malaysia.

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Academic and Professional qualifications

Bachelor of Engineering (Mechanical), University of Newcastle, Australia, 1990

Master of Science (Engineering Design), Loughborough University, UK, 1994

PhD (Material Engineering), De Montfort University, UK, 1998

Professional Engineer with Practicing Certificate (PEng), 2001

Administrative duties

- Founding staff (1999) and Head, Advanced Materials Research Centre, Institute of Advanced Technology (ITMA), UPM, 2001
- Head, Department of Mechanical and Manufacturing Engineering, UPM, 2008
- Founding Head, Engineering Composites Research Group, Faculty of Engineering, UPM, 2009;
- Head, Laboratory of Biocomposite Technology, INTROP, UPM, 2014-2017, 2020-2022 (Part of Higher Institution Centre of Excellence (HICoE) in Tropical Wood and Fiber))
- Head, Material Science and Technology Cluster, UPM, since 2015 to date
- Founding Head, Advanced Engineering Materials & Composites Research Centre (AEMC), UPM, 2018-2020; 2022 – to date
- Chief Executive Editor, Pertanika journals, DVC Office, UPM, 2022-to date

Experience

S. No.	Positions held	Name of the Institute	From	To
1.	Honorary Adjunct Professor	National Textile University, Faisalabad, Pakistan	2023	Till now
2.	Visiting Professor	Universiti Tenaga Nasional Malaysia	2023	2025
3.	Visiting Professor (World Class Professor)	Universitas Andalas, Padang, Indonesia	22 May 2023	27 May 2023
4.	Chief Executive Editor	Pertanika Journals,, Universiti Putra Malaysia	2022	2024
5.	Head	Advanced Engineering Materials and Composites Research Centre (AEMC) Faculty of Engineering, Universiti Putra Malaysia	2018	Till Now
6.	Head	Biocomposite Technology Laboratory Institute of Tropical Forestry and Forest Product (INTROP) Universiti Putra Malaysia	May 2020	2022
7.	Visiting Professor	MJIIT, Universiti Teknologi Malaysia, Kuala Lumpur	2020	2021
8.	Professor of Composite Materials (A Grade (JUSA A – VK5).	Department of Mechanical and Manufacturing Engineering, Universiti Putra Malaysia, 43400 Serdang, Selangor, Malaysia	2019	Till Now
9.	Research Associate (Appointed by Deputy Vice Chancellor, Research and Innovation)	Biocomposite Technology Laboratory Institute of Tropical Forestry and Forest Product (INTROP) Universiti Putra Malaysia	2019	2021

10.	Visiting Professor	SUPMECA – Institut superior de mecanique de Paris, 3 Rue Fernand Hainaut, 93407 Saint-Ouen, Cedex, France	2 September 2019	13 September 2019
11.	Research Associate Research Advisor	Biocomposite Technology Laboratory Institute of Tropical Forestry and Forest Product (INTROP) Universiti Putra Malaysia	2017	2019
12.	Visiting Professor/External Examiner	Mechanical Engineering Field Faculty of Information Sciences and Engineering (FISE) Management & Science University (MSU) Shah Alam, Selangor, Malaysia	2016	2020
13.	Head of Research Cluster (Materials Science and Technology)	Universiti Putra Malaysia	2015	Till now
14.	Head (Appointed by Vice Chancellor, UPM)	Laboratory of Biocomposite Technology, Institute of Tropical Forestry and Forest Products (INTROP), Universiti Putra Malaysia	2014	2017
15.	Principal Researcher	Aerospace Manufacturing Innovation Research Centre (AMRC), Faculty of Engineering, UPM	2014	2017
16.	Visiting Professor	Aligarh Muslim University, Aligarh, Uttar Pradesh, India	Feb 2014	March 2014
17.	Visiting Professor (Sabbatical leave)	Centre of Manufacturing Integration, Faculty of Engineering, Universiti Malaya, Kuala Lumpur	2013	2014
18.	Head of Research Program, UPM (Appointed by Deputy Vice Chancellor (Research and Innovation), UPM	Composites Technology Research Program, UPM • Engineering Composites Research Group • Bio-Composites Technology Research Group This Research Program is under the Cluster of Materials Science and Technology	2013	2015
19.	Research Advisor	Laboratory of Biocomposite Technology, Institute of Tropical Forestry and Forest Product (INTROP), Universiti Putra Malaysia	2013	2015
20.	Research Associate	Aerospace Manufacturing Research Centre (AMRC), Faculty of Engineering, UPM	2012	2014
21.	Visiting Professor	Universitas Malahayati, Bandar Lampung, Indonesia	2012	2012
22.	Head	Postgraduate Program in Advanced Composite Materials, Department of Mechanical and Manufacturing Engineering, Universiti Putra Malaysia	2012	2014
23.	Professor of Composite Materials (B Grade (JUSA B – VK6).	Department of Mechanical and Manufacturing Engineering, Universiti Putra Malaysia, 43400 Serdang, Selangor, Malaysia Date of Interview: 29 September 2011	2011	2019
24.	Research Associate	Materials Technology and Processing Laboratory, Institute of Advanced Technology, UPM	2012	2015
25.	Research Associate	Laboratory of Advanced Materials and Nanotechnology, Institute of Advanced Technology, UPM	2011	2013

26.	Visiting Professor	Faculty of Mechanical Engineering, Universiti Teknikal Malaysia Melaka	2011	2013
27.	Research Coordinator	Department of Mechanical and Manufacturing Engineering, UPM	2011	2013
28.	Research Associate	Biocomposite Technology Laboratory, Institute of Tropical Forestry and Forest Product (INTROP) UPM	2010	2014
29.	Head of Program (Structural Composites)	Advanced Materials and Nanotechnology Laboratory, Institute of Advanced Technology (ITMA)UPM	2009	2012
30.	Head (Appointed by Vice Chancellor, UPM)	Department of Mechanical and Manufacturing Engineering, UPM	2008	2011
31.	Research Associate	Advanced Materials and Nanotechnology Laboratory, Institute of Advanced Technology (ITMA)UPM	2009	2010
32.	Research Coordinator	Department of Mechanical and Manufacturing Engineering, UPM	2008	2008
33.	Head of Program	Advanced Composite Materials, Advanced Materials and Nanotechnology Laboratory, Institute of Advanced Technology (ITMA), UPM	2008	2009
34.	Head	Field of Study with Thesis (Materials Engineering) Department of Mechanical and Manufacturing Engineering, UPM	2007	2009
35.	Head	Laboratory of Engineering Design Department of Mechanical and Manufacturing Engineering, UPM	2007	2008
36.	Head	Research Area (Materials Engineering) of Research Area (Materials Engineering) Department of Mechanical and Manufacturing Engineering, UPM	2007	2008
37.	Visiting Academic (Sabbatical Leave)	School of Engineering, Design and Technology, University of Bradford, Bradford, BD7 1DP, UK	2007	2008
38.	Professor of Composite Materials (C Grade (JUSA C – VK7).	Department of Mechanical and Manufacturing Engineering, UPM	2007	2011
39.	Coordinator	Laboratory of Engineering Design Department of Mechanical and Manufacturing Engineering, UPM	2006	2006
40.	Associate Professor	Department of Mechanical and Manufacturing Engineering, UPM	2002	2007
41.	Research Associate	Advanced Materials Laboratory Institute of Advanced Technology (ITMA), Universiti Putra Malaysia	2001	2006
42.	Visiting Lecturer (Sabbatical Leave)	Department of Engineering Design and Manufacture Universiti Malaya, Kuala Lumpur, Malaysia	2001	2002
43.	Head (Appointed by Vice Chancellor, UPM)	Advanced Materials Research Centre Institute of Advanced Technology (ITMA), UPM (Dual appointment)	Feb 2001	August 2001
44.	Acting Head	Advanced Materials Research Centre Institute of Advanced Technology (ITMA), UPM	2000	2000
45.	Lecturer (Founder Staff)	Advanced Materials Research Centre Institute of Advanced Technology (ITMA), UPM (Dual appointment)	1999	2001
46.	Coordinator of Final Year Project	Dept of Mechanical and Manufacturing Engineering, UPM	1998	2000
47.	Lecturer	Dept of Mechanical and Manufacturing Engineering, UPM	1998	2002
48.	Tutor	Dept of Mechanical and Manufacturing Engineering, UPM	1996	1998

49.	Tutor	Dept of Mechanical and Systems Engineering, UPM	1994	1996
50.	Executive Officer	R&D Department, Perusahaan Otomobil Nasional Berhad (PROTON), HICOM Industrial Estate, Batu 3, Shah Alam, Selangor, Malaysia	7 June 1993	27 September 1993
51.	Tutor	Department of Mechanical Engineering, Universiti Malaya	1993	1993
52.	Research Assistant	Department of Chemical Engineering, Universiti Malaya	1990	1993

Area of Interest/Expertise in Academic

- Natural fibre polymer composites;
- Biobased polymer composite packaging;
- Materials selection for polymer composites
- Design for sustainability: Fully degradable biopolymer composites
- Concurrent engineering for polymer composites
- Conceptual design for polymer composites
- Biopolymer composites
- Nanocellulose biopolymer composites
- TRIZ in polymer composite product development

Working experiences

33 years

Visiting professorship/Visiting Researcher

- Faculty of Engineering, Univesiti Malaya, 2001-2002, 2013-2014
- University of Bradford, UK, 2007-2008
- Universiti Teknikal Malaysia Melaka (UTeM), 2011-2013
- Universitas Malahayati, Bandar Lampung, Indonesia, 2012
- Aligarh Muslim University, India, 2014
- Management and Science University, Shah Alam, Selangor, 2016-2020, 2020-2023
- SUPMECA, St Ouen, Paris, France, 2019
- MJIT, Universiti Teknologi Malaysia, 2020
- Universiti Malaysia Perlis, 2022-2024

- Universitas Andalas, Indonesia, 2023 (World Class University Program) (Visiting World Class Professor)
- Universiti Tenaga Nasional (UNITEN), Kajang, Malaysia, 2023-2025
- Honorary Adjunct Professor, National Textile University, Pakistan, 2023-now

Honorary Memberships and Fellowships

- Fellow, The World Academy of Sciences, 2024
- Fellow, Society of Automotive Engineers International, USA, 2015
- Fellow, International Graphical Association, UK, 2003
- Fellow, Institute of Materials Malaysia, 2004
- Fellow, Plastic and Rubber Institute Malaysia, 2010
- Fellow, Malaysian Scientific Association, 2012
- Fellow, Academy of Sciences, Malaysia, 2021
- Fellow, International Society for Development and Sustainability, Japan, 2022
- Fellow International Association of Advanced Materials, Sweden, 2023
- Honorary Member and Founding Chairman, Malaysian Society of Sugar Palm Development and Industry, 2017 – to date
- Honorary Member (2008 – present) and Past Vice President, Asian Polymer Association, India, 2008-2017

Other memberships

- Life Member, Institute of Energy, Malaysia
- Member, American Chemical Society (2021)
- Member, International Association of Engineers
- Member, National Professor Council
- Member, Friends of Environments
- Member, International Association of Advanced Materials

- Member, Malaysia Design Council
- Member, Society of Chemical Industry
- Member, International Society of Bionic Engineering
- Member, International Network on Engineering Education and Research (iNEER)
- Associate Member, International Society for Development and Sustainability
- Member, Design Research Society (1995-1998)
- Member, and Committee Member, Islamic Engineers Association, Malaysia (2003-2005)
- MyTRIZ Level 3 Practitioner

Teaching experience

Postgraduate and undergraduate teaching from 1998-2024; 71 times from 24 different courses

Publications

- Policy papers = 2
- Journal papers in total = 956
- Journal papers in Journal Citation Reports (JCR) with Impact factor = 524
- Journal papers in Scopus = 232
- Journal papers in other indexed databases =23
- Journal special issues = 33
- Non indexed journal papers = 178
- Authored books published = 17
- Edited books published =42
- Chapters in books =223
- Proceedings edited = 31
- Plenary and Keynote lectures = 67
- Invited lectures = 150
- Papers published in proceedings = 450
- Papers presented in conferences/book of abstract = 130
- Papers presented in seminars/conferences = 78

- Posters/exhibition presented = 79
- Publication/motivation seminars = 85
- TV interviews = 2
- Magazines/bulletins/newsletters = 61
- Reports = 54

Memorandum of understanding (MOU)/agreement (MOA)/non disclosure agreement (NDA) signed = Nine documents

Selected international book publication (Total books published = 59)

- 1.M.A.Maleque & S.M. Sapuan, Materials Selection and Design, Springer, Singapore, 2013.
- 2.Mohd Sapuan Salit, Tropical Natural Fibre Composites: Properties, Manufacture and Applications, Springer Science + Business Media, Singapore, 2014.
- 3.S.M. Sapuan, Composite Materials: Concurrent Engineering Approach, Butterworth-Heinemann (Imprint of Elsevier), Oxford, UK, March 2017.
- 4.Faris Al-Oqla and Mohd S. Salit, Materials Selection for Natural Fiber Composites, Woodhead Publishing (Imprint of Elsevier), Duxford, UK, 2017.
- 5.Muhd Ridzuan Mansor and Mohd Sapuan Salit, Concurrent Conceptual Design and Materials Selection of Natural Fiber Composite Products, Springer Nature, Singapore, 2018.
- 6.S.M. Sapuan and I.M. Mujtaba, Composite Materials Technology: Neural Network Applications, CRC Press, Boca Raton, Florida, USA, 2010.
- 7.S.M. Sapuan, M. Jawaid, Nukman Yusoff and Md Enamul Hoque, Manufacturing of Natural Fibre Reinforced Polymer Composites, Springer International Publishing, Switzerland, 2015.
- 8.M. Jawaid, Salit, Mohd Sapuan and O.Y. Al-Othman, Green Biocomposites: Manufacturing and Properties, Springer International Publishing AG, Cham (ZG), Switzerland, 2017.
- 9.M. Jawaid, Mohd Sapuan Salit and O.Y. Al-Othman, Green Biocomposites: Design and Applications, Springer International Publishing AG, Cham (ZG), Switzerland, 2017.
- 10.S.M. Sapuan, H. Ismail & E.S. Zainudin, Natural Fibre Reinforced Vinyl Ester and

Vinyl Polymer Composites, Woodhead Publishing, Duxford, UK, 2018.

11. S.M. Sapuan, M.R. Ishak, J. Sahari and M. L. Sanyang, Kenaf Fibers and Composites, CRC Press, An Imprint of Taylor & Francis, Boca Raton, FL, 2018.

12. S.M. Sapuan, J. Sahari, M.R. Ishak and M.L. Sanyang, Sugar Palm Biofibers, Biopolymers, and Biocomposites, CRC Press, Boca Raton, FL., USA, 2018.

13. A. B. Abdullah & S.M. Sapuan, Hole Making and Drilling Technology for Composites: Advantages, Limitations and Potential, Woodhead Publishing, Duxford, UK, 2019.

14. Hidayah Ariffin, S.M. Sapuan and Mohd Ali Hassan, Lignocellulose for Future Bioeconomy, Woodhead Publishing, An Imprint of Elsevier, Duxford, UK, April 2019.

15. Faris. M. AL-Oqla and S.M. Sapuan, Advanced Processing, Properties and Applications of Starch and Other Bio-Based Polymers, Elsevier Inc., Amsterdam, Netherlands, 2020.

16. S.M. Sapuan and R.A. Ilyas, Biocomposite and Synthetic Composites for Automotive Applications, Elsevier UK, 2021.

17. S. M. Sapuan, Y. Nukman, N.A. Abu Osman and R.A. Ilyas, Composites in Biomedical Applications, CRC Press, Boca Raton, USA, 2020.

18. R. Jumaidin, S.M. Sapuan, and H. Ismail, Biofiller-Reinforced Biodegradable Polymer Composites, CRC Press, Boca Raton, USA, 2021.

19. S.M. Sapuan and R.A. Ilyas, Biobased Packaging: Materials, Environmental and Economic Aspects, John Wiley & Sons Ltd, Chichester, West Sussex, UK, 2021.

20. S.M. Sapuan and M.R. Mansor, Design for Sustainability: Green Materials and Processes, Elsevier Inc, Amsterdam, 2021.

21. Y. Nawab, S.M. Sapuan and K. Shaker, Composite Solutions for Ballistics, Woodhead Publishing (An Imprint of Elsevier), Duxford, UK, 2021.

22. S.M. Sapuan, R. Nadlene, A.M. Radzi and R.A. Ilyas, Roselle: Production, Processing, Products and Biocomposites, Academic Press (An imprint of Elsevier) London, 2021

23. C.H. Azhari, S.M. Sapuan and Z. Rozli, Natural Fibre Composites, Penerbit UKM, Bangi, Malaysia, 2021

24. S.M. Sapuan, R.A. Ilyas and M.R.M. Asyraf, Safety and Health in Composite Industry, Springer Nature, Singapore, 2022.

25. Hanafi Ismail, S.M. Sapuan and R.A. Ilyas, Mineral-Filled Polymer Composites: Selection, Properties, and Applications: CRC Press, Boca Raton, USA, 2022.
26. Hanafi Ismail, S.M. Sapuan and R.A. Ilyas, Mineral-Filled Polymer Composites, Perspective, Properties, and New Materials, CRC Press, Boca Raton, USA, 2022.
27. S.M. Sapuan, M.N.F. Norrahim and R.A. Ilyas, Industrial Applications of Nanocellulose and its Nanocomposites, Elsevier, UK, 2022.
28. N.K. Mazlan, S.M. Sapuan and R.A. Ilyas, Advanced Composites in Aerospace Engineering Applications, Springer, Cham. Switzerland, 2022.
29. R.A. Ilyas, S.M. Sapuan and Emin Bayraktar, Recycling of Plastics, Metals, and their Composites, CRC Press, Boca Raton, USA, 2022.
30. S.M. Sapuan, M.T. Paridah, S.O.A. SaifulAzry and S.H. Lee, Oil Palm Biomass for Composite Panels: Fundamentals, Processing, and Applications, Elsevier, UK, 2022.
31. S.M. Sapuan and Imran Ahmad, Composites from the Aquatic Environment, Springer Nature, Singapore, 2023
32. Z.M.A. Ainun, S.M. Sapuan and R.A. Ilyas, Pulping and Papermaking of Nonwood Plant Fibres, Academic Press, UK, 2023.
33. S.M. Sapuan, S.O.A. SaifulAzry, A.A. Shamsuri, A. Ghani and A. Khalina, Biopolymer Composites: Production and Modification from Tropical Wood and Non-Wood Raw Materials, De Gruyter, Germany, 2023.
34. N.M. Nurazzi, R.A. Ilyas and S.M. Sapuan, Synthetic and Natural Nanofillers in Polymer Composites: Properties and Applications, Woodhead Publishing, UK, 2023.
35. R.A. Ilyas, S.M. Sapuan and M.N.F. Norrahim, Nanocellulose fibre reinforced Starch Biopolymer Composites, De Gruyter, Germany, 2023.
36. Hanafi Ismail, S.M. Sapuan and R.A. Ilyas, Recycled Polymer Blends and Composites: Processing, Properties and Applications, Springer Nature Switzerland AG, Cham, 2023,
37. M.T. Mastura, S.M. Sapuan and R.A. Ilyas, Additive Manufacturing for Biocomposites and Synthetic Composites, CRC Press, Boca Raton, UK, 2024.

h-index, citations, editorial board and reviews

- Scopus, h-index = 94; number of citations = 32,687
- Google Scholar, h index = 116; number of citations = 48,460

- Journal Editorial board (over 30 journals)
- Natural Fibre Polymer Composites, Editor-in-Chief
- Functional Composites and Structures, Co-Editor in Chief, IOP Publication, UK (Scopus, ESCI)
- Chief Executive Editor, Pertanika journals, UPM (ESCI and Scopus)
- Journal of Reinforced Plastics and Composites, Sage Publication (Q2, JCR)
- Defence Technology, Associate Editor-in-Chief, Elsevier/ KeAi Publishing (Q1, JCR)
- Polymers, Section Editor, MDPI (Q1, JCR)
- Journal of Renewable Materials (Scopus)
- Non-Linear Engineering, De Gruyter (Scopus, ESCI) (Impact factor 8.3)
- Current Materials Science, Bentham, UAE (Scopus)
- ASM Journal, Section Editor (Scopus)
- And organized over 32 special issues in journals as guest editor
- Reviewer of more than 1500 journal papers and 51 book and book proposals

Selected Recent Journal papers indexed in JCR (Clarivate)

No.	Title of Publication
1	Vasi Uddin Siddiqui, M.A. Tareq, S.M. Sapuan , Tarique Jamal, R.A. Ilyas, Sayed M Eldin, Abir Khan and Yusuf Jameel, Isolation and characterization of cellulose from pomegranate (<i>punica granatum</i>) peel, <i>Journal of Natural Fibers</i> , 21, no. 1, paper number 2299943, 14 pages, 2024 (Impact factor = 3.507) (Q1).
2	Y. Jameel, S.M. Sapuan , M.A. Ansari, V.U. Siddiqui and J. Tarique, A Exploring nanocellulose frontiers: A comprehensive review of its extraction, properties, and pioneering applications in the automotive and biomedical industries, <i>International Journal of Biological Macromolecules</i> , 255 , paper no. 28121, 2024 (Impact factor = 8.2) (Q1).
3	Haja Syed Hussain, Mohd Ridzuan Mohd Jamir, Mohd Sukry Abdul Majid, S,M, Sapuan , Ferriawan Yudhanto, Aris Widyo Nugroho and Muhammad Faiz Hilmi Rani, Friction and wear characteristics of <i>Furcraea foetida</i> fiber-reinforced epoxy composites, <i>Polymer Composites</i> , 44 , no. 12, pp. 8559-8577, 2023 (Impact factor = 3.531) (Q1).

4	Mohammad Azad Alam, Hamdan B. Ya, Mohammad Azeem, Mazli Mustapha, Mohammad Yusuf, Faisal Masood, Roshan Vijay Marode, Salit Mohd Sapuan , and Akhter Husain Ansari, Advancements in aluminum matrix composites reinforced with carbides and graphene: A comprehensive review, <i>Nanotechnology Reviews</i> , 12 , no. 1, paper no. 20230111, 46 pages, November 2023 (Impact factor = 6.739) (Q1).
5	Abir Khan, S.M. Sapuan , J. Yusuf, Vasi Uddin Siddiqui, E.S. Zainudin, M.Y.M. Zuhri, B.T. Hang Tuah Baharuddin, Mubashir Ahmad Ahmad Ansari and A. Azim A. Rahman, An examination of cutting-edge developments in bamboo-PLA composite research: A comprehensive review, <i>Renewable and Sustainable Energy Reviews</i> , 188 , paper no. 1138322023, 24 pages, December 2023 (Impact factor = 15.9) (Q1).
6	Abir Khan, S.M. Sapuan , Vasi Uddin Siddiqui, E.S. Zainudin, M.Y.M. Zuhri and M.M. Harussani, A review of recent developments in kenaf fiber/polylactic acid composites research, <i>International Journal of Biological Macromolecules</i> , 253 , no. 5, Paper no. 127119, 19 pages, December 2023 (Impact factor = 8.2) (Q1).
7.	Saaed Abdullah Mousa, S. M. Sapuan , M.M. Harussani, Tarique Jamal, M. A. M. Azri, R.A. Ilyas, Muhammad Amin Azman, Vasi Uddin Siddiqui and Tahrim Rafin, Development and characterization of sugar palm (<i>Arenga pinnata</i> (Wurmb. Merr)) fibre reinforced cassava (<i>Manihot esculenta</i>) starch biopolymer composites, <i>Journal of Natural Fibers</i> , 20 , no. 2, paper no. 2259103, 20 pages (Impact factor = 3.507) (Q1).
8.	Abdulrahman, A.B.A. Mohammed, Zaimah Hasan, Abdoulhadi Borhana Omran, Abdulhafid M Elfaghi, Norie A.A. Akeel, R. A. Ilyas and S. M. Sapuan , Effect of sugar palm fibers on the properties of blended wheat starch/polyvinyl alcohol (PVA)-based biocomposite films, <i>Journal of Material Processing and Technology</i> , 24 , pp. 1043-1055, May-June 2023 (Impact factor = 6.4) (Q1).
9.	Isah Aliyu, Salit Mohd Sapuan , Edi Syams Zainudin, Umer Rashid, Mohd Yusoff Mohamed Zuhri and Ridwan Yahaya, Characterization of ash from sugar palm <i>Arenga Pinnata</i> (Wurmb. Merr.) fibre for industrial application, <i>Journal of Natural Fibers</i> , 20 , no. 1, 2023 (Impact factor = 5.323) (Q1) (top 10% journal).
10.	A.B.M Supian, S.M. Sapuan , M. Jawaid, M.R.M. Zuhri, R.A. Ilyas and A. Syamsir, Crashworthiness response of filament wound kenaf/glass fibre-reinforced epoxy composite tubes with influence of stacking sequence under intermediate-velocity impact load, <i>Fibers and Polymers</i> , 23 , pp. 222–233, 2022 (Impact factor = 2.153) (Q1).
11.	S.A.N. Mohamed, E.S. Zainudin, S.M. Sapuan , M.D. Azaman and A.M.T. Ariffin, Energy behavior of rice husk fibres reinforced polymer composite, <i>Journal of Materials Research and Technology</i> , 9 , no. 1, pp. 383-393, Jan-Feb 2020 (Impact factor = 2.993) (Q1).
12.	Mohd Nizam Shakimon, Rohana Hassan, Nor Jihan Abd Malek, Azman Zainal, Ali Awaludin, Nor Hayati Abdul Hamid, Wei Chen Lum, Mohd Sapuan Salit , European yield model exponential decay constant modification for glulam after fire exposure, <i>Forests</i> , 13 , no. 12, Article number 2012, 17 pages, 2022 (Impact factor = 2.633) (Q1).

13.	Walid Abotbina, S.M. Sapuan , M.T.H. Sultan, M.F.M. Alkbir and R.A.Ilyas, Extraction, characterization, and comparison of properties of cassava bagasse and black seed fibers, Journal of Natural Fibers, 19, no. 16, pp. 14525-14538, 2022 (Impact factor = 5.323) (Q1) (top 10% journal).
14.	J. Tarique, S.M. Sapuan and A. Khalina, Extraction and characterization of a novel natural lignocellulosic (bagasse and husk) fiber from arrowroot (maranta arundinacea), Journal of Natural Fibers, 19, no 15, pp. 9914-9930, 2022 (Impact factor = 5.323) (Q1) (top 10% journal).
15.	Fathi Masoud, S. M. Sapuan , Mohd Khairol Anuar Mohd Ariffin, Y. Nukman and Emin Bayraktar, Experimental analysis of surface roughness in cutting process of sugar palm fibre reinforced unsaturated polyester composites with laser beam process of abrasive water jet cutting technologies, Fibers and Polymers, 23, no. 11, pp. 3179-3187, 2022 (Impact factor = 2.153) (Q1).
16.	S.F. Sherwani, S.M. Sapuan, E.S. Zainudin, Z. Leman and K.Abdan, Physical and flammability properties of treated sugar palm fibre reinforced polylactic acid composites, Journal of Industrial Textiles, 52, July-December 2022, 28 pages, (Impact factor = 2.926) (Q1).
17.	A.B.M. Supian, Mohd Sapuan Salit , M.Y.M. Zuhri and H.H. Ya, The crashworthiness performance of stacking sequence on filament wound hybrid composite energy absorption tube subjected to quasi-static compression load, Journal of Materials Research and Technology, 9, no. 1, pp. 654-666, Jan-Feb 2020 (Impact factor = 2.993) (Q1).
18.	Walid Abotbina, S.M. Sapuan , R.A. Ilyas, M.T.H Sultan, M.F.M Alkbir, Shamsuddin Sulaiman, M. M Harussani and Emin Bayraktar, Recent developments in cassava (Manihot esculenta) based biocomposites and their potential industrial applications: A comprehensive review, Materials, 15 no. 19, Article number 6992, 41 pages, 2022 (Impact factor = 3.620) (Q1).
19.	M.N.M. Azlin, S.M. Sapuan , E.S. Zainudin, and M.Y.M. Zuhri, Mechanical, morphological and thermal properties of woven polyester fibre reinforced polylactic acid (PLA) composites, Fibers and Polymers, 23 (4), pp. 2414-2419, 2022 (Impact factor = 2.153) (Q1).
20.	Ibrahim, M.I.J., Sapuan S.M. , Zainudin, E.S. and Zuhri, M.Y.M., 2020. Preparation and characterization of cornhusk/sugar palm fiber reinforced Cornstarch-based hybrid composites. Journal of Materials Research and Technology, 9(1), pp.200-211.

21.	Shahroz Saleem, Abdullah Hasan Jabbar, Muhammad Hasnain Jameel, Azka Rehman, Zahraa Hashim Kareem, Ali Hashim Abbas, Zunaira Ghaffar, Saba Abdul Razzaq, Rami Adel Pashamech, Eman Alzahrani, Eng-Poh Ng and S.M. Sapuan , Enhancement in structural, morphological and optical properties of copper oxide for optoelectronic device applications, Nanotechnology Reviews, 11(1) pp. 2827-2838, September 2022 (Impact factor = 7.848) (Q1).
22.	Rushdan Ahmad Ilyas, Humaira Alias Aisyah, Abu Hassan Nordin, Norzita Ngadi, Mohamed Yusoff Mohd Zuhri, Muhammad Rizal Muhammad Asyraf, Salit Mohd Sapuan , Edi Syams Zainudin, Shubham Sharma, Hairul Abral, Mochamad Asrofi, Edi Syafri, Nasmi Herlina Sari, Mazlan Rafidah, Sharifah Zarina Syed Zakaria, Muhammad Rizal Razman, Nuriah Abd Majid, Zuliskandar Ramli, Ashraf Azmi, Sneh Punia Bangar and Rushdan Ibrahim, Natural-fiber-reinforced chitosan, chitosan blends and their nanocomposites for various advanced applications, Polymers, 14, Article number 874, 36 pages, 2022 (Impact factor = 4.329) (Q1).
23.	Muhammad Rizal Muhammad Asyraf, Agusril Syamsir, Nazirul Mubin Zahari, Abu Bakar Mohd Supian, Mohamad Ridzwan Ishak, Salit Mohd Sapuan , Shubham Sharma, Ahmad Rashedi, Muhammad Rizal Razman, Sharifah Zarina Syed Zakaria, Rushdan Ahmad Ilyas and Mohamad Zakir Abd Rashid, Product Development of natural fibre-composites for various applications: Design for sustainability, Polymers, 14 (5), Article number 920, 28 pages, February 2022 (Impact factor = 4.329) (Q1).

Conferences/Symposium chaired (107 conference advisory/committee member)

- Eight International Conference on Composite Science and Technology, Kuala Lumpur, 2011.
- Postgraduate Symposium on Composites Science and Technology, Putrajaya, 2014.
- Postgraduate Symposium on Biocomposite Technology, Serdang, 2015.
- National Sugar Palm Seminar, 2019
- International Symposium on Polymeric Materials (ISPM 2022), Serdang, June 2022
- Wood and Biofiber International Conference (WOBIC2021), Putrajaya, Nov 2021
- International Conference on Advanced Engineering Materials and Composites, Serdang, May 2024.

Plenary/Keynote lectures

Prof Mohd Sapuan had delivered 67 keynote/plenary lectures at conferences in China, Indonesia, India, Oman, Pakistan, Philippines, Portugal, USA, United Kingdom, Bahrain, Egypt, Thailand and Malaysia.

Patents

- Machine tool for processing of bevel gears with spiral tooth, Malaysian patent, 2005
- Wind power station, Malaysian Patent, 2009
- Lumbar support system, Malaysian Patent, 2012
- Ergonomic lumbar support, Malaysian Patent, 2013
- Post Conditioning Machine, Malaysian Patent, 2015
- Post conditioning machine, Chinese Patent, 2018
- Two-wheeler child safety seat assembly, Malaysian patent, 2018
- Process for converting solid plastic wastes to briquettes Malaysia Utility Innovation 2021

Copyright

- Putra Frame, 2017
- Operation Manual for Fabrication of green composite food tray, 2019
- Safety helmet, 2019
- Development of Thermally Stable Polycrystalline Photovoltaic Module Based Biocomposite Materials, 2020
- Operation to fabricate of epoxy composite filled with recycled face masks (video), 2023
- Manual to produce biodegradable motorcycle battery housing part, 2023
- Operation manual to fabricate of epoxy composite filled with recycled face masks (Manual), 2023

Industrial Design

- Table, 2004
- Coffee Table, 2015

Trademarks

- Sugar palm fibersTM, 2017
- Sugar palm starchTM, 2017

Products commercialized.

- Putra Frame
- Sugar palm starch

- Sugar palm fibre

- Palm sugar
- Sugar palm fruits

Total sales over RM 500,000

Spin-off company = Hafiz Adza Enterprise, Kuala Jempol, Negeri Sembilan

Main Committee membership

- Founder Chairman Malaysian Society of Sugar Palm Development & Industry, 2017-2019
- Patron, Malaysian Society of Sugar Palm Development & Industry, 2020
- Chairman Malaysian Society of Sugar Palm Development & Industry, 2021-2023
- Vice President, Asian Polymer Association, IIT Delhi, India, 2008-2017
- Selection committee member, Young Scientist Award, Asian Polymer Association, India, 2013
- National Point Contact Representative, Regional Network for Energy Technology in South East and Pacific under UNESCO, Putrajaya, Malaysia, 2007-2012
- Mentor, Publons Academy, USA
- Assistant Secretary, Study Team for Malaysian Engineering Education Model, Malaysian Council of Engineering Deans
- Panel of Assessor, Engineering Research Award, Yayasan Perak
- Management Committee Member, Plastics and Rubber Institute Malaysia, 2010-2012.
- Administrative Committee Member, Institute of Energy Malaysia, 2005-2007.
- Panel of Assessor, Lembaga Akreditasi Negara/Malaysia Qualification Agency, 2000-2023
- Member of Working Group, Workshop to Explore Scientific Exchange and Collaboration with KTH Royal Institute of Technology, Sweden, Academy of Science Malaysia, 2013
- Technical Committee on Plastic Tank standard, SIRIM Bhd., Shah Alam, 2008
- Panel of Assessor, Industrial PhD, Ministry of Higher Education, Malaysia, 2011
- Associate professor/professor promotion assessor/referee for The University of Western Australia, Australia, University of Southern Queensland, Toowoomba, Queensland, Australia, Science Division the Higher Colleges of Technology, UAE, National Textile University, Pakistan, Hashemite University, Jordan, Public Authority of Applied Education and Training (PAAET), Kuwait, Qatar University, Government College Women University Faisalabad, Pakistan, Universiti Teknologi Brunei. Bandar Seri Begawan, Brunei Darus Salam, Kuwait University, Kuwait. National University of Science and Technology (NUST), Islamabad, Pakistan, University of Engineering and Technology (UET)

Taxila, Pakistan and Botswana University of Science and Technology.

- Associate professor/professor promotion assessor for USM, IIUM, UMP, UMT, UTM, UTeM, INTI International University, UKM, UniKL, UPM, UNIMAP, UNITEN, UiTM, UNIMAS
- Technical Committee on Fire Properties of Building Materials standard, Department of Standard Malaysia, 2020-now
- Selection Panel, Top Research Scientist Malaysia (TRSM), Academy of Science Malaysia, 2021-2023
- Chairman, Working Group, Ecolabelling Criteria for Air Conditioner, SIRIM Bhd, 2021.
- Assessor, National Young scientist Award, MOSTI, 2021,2022
- Assessor, National Technician Award, MOSTI, 2021,2022
- Judge, Material Lecture Competition, Institute of Materials, Malaysia, 2015, 2021, 2022,2023
- Trainer, MGTC, Ministry of Environment and Water Malaysia, 2022.
- Committee member for Research University, (JKRU), MOHE, Malaysia, 2022-2024
- Member of Plastic Sustainability and Circularity Working Group focusing on Biodegradable/Alternative to Conventional Plastics, Ministry of Environment and Water, Malaysia, 2022
- Selection Panel, Malaysia Research Star Award and CREAM Journal Award, MOHE, 2022
- Malaysia Representative, The D-8 Network of Pioneers for Research and Innovation (D-8 NPRI), Islamabad, Pakistan, 2023
- Interviewer, for the post Deputy Vice Chancellor, UPM, 2023
- Advisory Panel, Phillip Sdn Bhd, Kuala Lumpur, 2023.
- National Committee for Review of Academic Staff Promotion, MOHE, 2024
- Member, Working Group on Ecolabelling Criteria – Air Conditioner, SIRIM ECO 055:2021, SIRIM Bhd, 2023-now

Bachelor Degree Engineering Program External Assessor

- Universitas Jember, Indonesia
- UniKL IPROM
- UKM,
- UTM
- UNIMAS
- MSU
- UCSI University
- UTeM
- USM
- UNIMAP
- UMS

- UiTM

Member Board of Studies/Advisor

- UTeM
- UM
- IIUM
- UiTM
- UTP
- UniKL, MFI, ICOLE
- UniKL, MIAT
- UTM
- UNIMAP
- UCSI
- UMP

Postdoctoral/Postgraduate Students supervised

- Post doctoral = 16
- PhD main supervisor graduated = 58
- PhD co supervisor graduated = 43
- MS main supervisor graduated = 39
- MS co supervisor graduated = 37
- FYP supervisor = 122
- Industrial training supervisor = 62
- Ongoing PhD students = 4
- Ongoing MS students = 5

Examiner for MSc and PhD (national)

UiTM UMP UTM UKM IIUM MMU UCSI UM UMT UTHM UTeM UUM
 UniKL UTP UNITEN UNIMAS UPNM UMS
 59 PhD Internal examiner UPM
 51 MSc Internal examiner UPM
 58 Chairman of viva MSc and PhD

External examiner for PhD (International)

- Swinburne University of Technology, Australia
- RMIT University, Australia
- University of Western Australia
- University of Southern Queensland
- National Textile University Pakistan

- Nanyang Technological University, Singapore
- Aligarh Muslim University, India
- Universitas Andalas, Indonesia
- IIT Kharagpur, India
- Anna University, India
- Andhara University, India
- University of Karachi, Pakistan
- National Institute of Technology, Rourkela, India
- NIT Warangal, India
- VIT University, Vellore, India
- University of Madras, India
- Pondicherry University, India
- Sharda University, India
- Noorul Islam Centre For Higher Education (Deemed to be University), India
- Veer Surendra Sai University of Technology, India
- Sardar Vallabhbhai National Institute of Technology, India
- Koneru Lakshmaiah Education Foundation, Deemed to be University, Guntur, India
- Visvesvaraya Technological University, Karnataka State, India
- National University of Sciences and Technology (NUST), Islamabad, Pakistan

National Research Proposal Reviewer

- UTP
- UMK
- UMP
- UPM
- INTI International University
- Polytechnic Education Department MOHE
- USM

International Research Proposal Reviewer

- King Saud University Riyadh, Saudi Arabia, 2009
- Qatar National Research Fund, Qatar Foundation, Doha, Qatar, 2011
- Christian Doppler Research Association (CDG), Austria, 2012
- National Science Centre, Kraków, Poland, 2015, 2023
- Austrian Science Fund (FWF), Vienna, Austria, 2016, 2023
- Netherlands Organisation for Scientific Research, The Hague, Netherlands, 2016
- American University of Sharjah (AUS), Sharjah, United Arab Emirates, 2018, 2019
- Swiss National Science Foundation (SNSF), Bern, Switzerland, 2019, 2020, 2021, 2024

- The Research Council (TRC), Sultanate of Oman, 2020
- European Union, France, 2022
- Czech Science Foundation, 2023
- National Research, Development and Innovation Office, Hungary, 2023

National grants

- UPM
- Ministry of Higher Education
- Ministry of Education
- Ministry of Agriculture and Agro-Based Industry
- MPOB
- Universiti Malaya
- UNITEN
- Selangor State
- Terengganu State
- MOSTI

International grants

- ASEAN-Australian Energy Co-operation Programme
- Commission of the European Communities
- Research Scheme 'Hibah Bersaing', Indonesia Government of Directorate General of Higher Education (DIKTI)
- SEARCA the Philippines
- USAID, USA
- Steelcase Asia Pacific
- Universitas Abulyatama, Indonesia
- UPM Jordan Matching Grant
- Indonesian Collaborative Research Program (RKI), Universitas Andalas.

Consultancy work/industrial grants

- Sime Darby Research Sdn Bhd
- Intinaan Resources Sdn Bhd, Kajang, Selangor
- Electrius Sdn.Bhd. Selangor
- Organized Annual Workshop on Scholarship National Science Fellowship MOSTI
- Universiti Tun Abdul Razak (UNITAR) KL
- National Science Centre KL
- Apex Communications Sdn Bhd KL
- Starken AA Sdn. Bhd., KL
- Survey Research of Malaysia Sdn. Bhd

- Institution of Engineers Malaysia
- Puncak RM Sdn Bhd

Awards (total awards = 277)

- Anugerah Karyawan Putra Cemerlang, UPM, 2002
- Outstanding Researcher Award, UPM, 2006, 2008, 2009 (two awards), 2017 (two awards)
- Vice Chancellor Fellowship Award, 2008
- ISESCO Science Award in Technology, ISESCO, Azerbaijan, 2008
- Alumni Medal for Professional Excellence Finalist, Uni. of Newcastle, Australia, 2012
- Khwarizmi International Award, Iran, 2013
- Role Model 5 Star Supervisor Award, UPM, 2013
- SEARCA Regional Professorial Chair Award, Philippines, 2016
- National Book Awards, 2017, 2018
- Outstanding Technical Paper Award, SAE Malaysia Group, 2017
- Citation of Excellence Award, Emerald Publishing, UK, 2017
- Endeavour Research Promotion Award, Teerthankeer Mahaveer University and IEEE India, 2017
- Publons Peer Review Award, Clarivate Analytics, USA, 2018
- Malaysia's Research Star Award, Prominent Topics in Research, MoE/Elsevier, 2018
- Professor of Eminence Award, Aligarh Muslim University, India, 2019
- Top Peer Reviewer, Publons, Clarivate Analytics, USA, 2019
- Top Research Scientists Malaysia Award, Academy of Science Malaysia, 2019.
- Distinguished Professor Award, INTROP, UPM, 2019
- Top Cited Article 2018-2019, Wiley, Singapore, 2020
- Most Cited Article Award 2018 to 2019, Springer Korea, 2020
- Gold in Invention and Innovation Awards, Malaysia Technology Expo, 2020
- World Top 2% Scientists, Stanford University, USA, 2020, 2021, 2022, 2023
- Perintis Publication Award, Perintis, Malaysia, 2021, 2022
- IET Achievement Medal Finalist, Institution of Engineering Technology, UK, 2021
- First Place Winner, Best Oral Presentation Award, WOBIC 2021.
- Best Paper Award, SAPC 2021
- 2021 SAE Subir Chowdhury Medal of Quality Leadership, Society of Automotive Engineers, International, Detroit, USA, 2022
- Anugerah Tokoh Pekerja UPM 2022

- Anugerah Khas Akademia Putra, UPM, 2022
- Outstanding Contribution Award, International Society of Bionic Engineering, China, 2022
- IET Malaysia Leadership Award (Academic), 2023
- Excellent Service Award (Category of Professors, Universiti Putra Malaysia, 2023)
- Gold Medal at Engineering Innovation and Exhibition 2023 (EIE 2023), Faculty of Engineering, Universiti Putra Malaysia
- Materials Science Leader Award, 2023 (Ranked 843 in the world ranking and ranked 2 in Malaysia), Awarded by Research.com, Algeria
- William Johnson International Gold Medal. AMPT 2023
- Life Time Achievement KnowTex Award, National Textile University, Faisalabad, Pakistan, 2024
- TWAS Award in Engineering Sciences, The World Academy of Sciences, Italy, 2024
- Rank 6 in Malaysia Scientists Ranking Malaysia 2024, AD Scientific Index 2024
- COMSTECH Best Scientific Book Award (2023), March 2024