

C. V. for Prof. Dr. Amal Amin till March 2026

<https://orcid.org/0000-0002-2691-0630>



Personal Data

Sure Name: Amin Ibrahim Shendi Nada

Name: Amal

Gender: Female

Place of residence: Cairo

Nationality: Egyptian

Marital Status: Married with two girls

E-mail: aamin_07@yahoo.com&aminamal004@gmail.com

Language Skills

English: Excellent (written and spoken-TOEFL)

German: Very Good

Arabic: Mother Tongue

EDUCATIONAL DATA:

Sep 1984 - Aug 1987 General Secondary school- Cairo – Egypt

Oct 1987 - May 1991 B.Sc. of Science, Chemistry Department- Faculty of Science- Ain- Shams University-Cairo – Egypt.

Sep1992 – Mar 1993 language courses in the American University (AUC) in Cairo.

May 1997 M.Sc. in organic chemistry “preparation and studying of the physical and chemical properties of some polymers obtained from some aromatic amine derivatives” Faculty of Science, Cairo University, Cairo, Egypt.

Nov 2003 Ph.D. in Organic Chemistry (Polymers` Technology & Catalysis).

“Studies on novel multinuclear catalysts for atom transfer radical polymerization” Faculty of Science, Cairo University, Egypt

EXPERTISE

March 2023 Member at Entrepreneurship committee at institute of chemical industries research at National Research Centre

June-December 2022 Visiting professor/researcher at faculty of Engineering, University of Basque country (Bilbao) & Polymat (fellowship provided from women for Africa foundation),

Bilbao, Spain

September 2021-December 2021 Visiting professor at Institute for Materials Science-
Technical faculty- Christian-Albrechts-University of Kiel-Germany (DAAD).

November 2016-December 2019 Visiting professor at advanced materials and nanotechnology
program at faculty of Engineering-Cairo University, Egypt.

June 2014 Professor at polymers and pigments department, Institute of
chemical industries research, National Research Centre, Egypt

25th Sept- 25th October-2012 Department of Chemistry-Michigan technical university- USA

June 7th to July 6th -2012 Laboratoire d'Automatique et de Genie des proce'de's (LAGEP)
CNRS- Universite' Lyon 1, University of Lyon 1- Villeurbanne- France.

September -2011 Laboratoire d'Automatique et de Genie des proce'de's (LAGEP)
CNRS- Universite' Lyon 1, University of Lyon 1- Villeurbanne- France.

June- till November 2010 Post-doctor fellowship at centre for molecular design and
recognition- Departments of Polymer Science, the Maurice Morton Institute for Polymer Science,
the University of Akron, Akron, Ohio, USA

15.5.2009 Leader of Nano-structured polymers research group at centre of
excellence- NRC- Egypt

December 2008-2014 Associate professor at Polymers & Pigments Department – NRC –
Dokki – Cairo – Egypt

July-2008-October 2008 post-doctoral fellowship at Leibniz-Institute for polymer research-
IPF- Dresden- Germany

July 2007- July 2008 member of international relations office- NRC- Cairo- Egypt

2006-2008 member of advanced materials & nanotechnology group at the centre
of excellence- National Research Centre (NRC) - Dokki – Cairo – Egypt.

2003- 2008 Researcher at Polymers & Pigments Department – NRC, Egypt.

Oct 99 – Oct 2001 DAAD PhD scholarship- channel system agreement between Egypt
and Germany- Inorganic chemistry department II- Ulm University- Ulm – Germany
(Studies on novel multinuclear catalysts for atom transfer radical polymerization)

May 2000 Training Courses in Catalysis and catalytic Systems-Ulm University
-Ulm – Germany

Jan 2000 Bielestein and Gemaline Computer Research Program-Germany

Jun 99 – Sep 99 German language course in Goethe institute- Freiburg-Germany

1997 Assistant of researcher (NRC)

16-26- Dec- 1996 Training course on the utilization of ¹HNMR technique in characterization and investigation of different compounds.

1995 Research Assistant in (NRC)

1993 Training in National Research Centre (NRC)

Computer Skills

Ms – Office, Internet-Bielestein and Gemaling Computer Research Program

Activities

Conferences: active participation in:

International meetings:

General meetings

- 2nd conference on equitable partnerships, hosted by British Academy and South Africa's National Research Foundation, 3-5 February 2026 in Pretoria, **South Africa**.
- OWSD – 7th General Assembly 3 - 7 November 2025, **Bogotá, Colombia**.
- High level Stakeholder engagement event on research and innovation management in Africa, 25-27th February 2025, **Dar Es Salaam, Tanzania**.
- Equitable Partnerships Conference organized by British Academy, 11-12 February 2025, **London UK**.
- Third General Assembly of the International Science Council (ISC), 26-31 January, 2025, **Muscat, Oman**.
- Building Equitable African Partnerships (BEAP) workshop, 16-17 January, 2025, **Nairobi, Kenya**
- World Science forum, November 2024, **Budapest, Hungary**.
- Workshop of British academy-UK on (equitable partnerships in international research collaborations), 16-17 October 2024, **Nairobi, Kenya**.
- ORCID board meeting as member of board of directors, 11-12 September 2024, **Santiago, Chile**.
- Eastern Africa Research and innovation management association (ERIMA) conference, 17-19 August 2024, **Zanzibar, Tanzania**
- INGSA (International science advice network), 1-2 May 2024, **Kigali, Rwanda**.

- Festival delle Scienze, 15-19 April 2024, **Rome Italy.**
- ORCID board meeting as member of board of directors, 6-8th February, 2024, **Amsterdam, Netherlands.**
- ORCID board meeting as member of board of directors, 12-13 October 2023, **Brisbane, Australia.**
- INORMS (international network of research management societies) Congress hosted by the Southern African Research and Innovation Management Association (SARIMA), 30 May – 2 June 2023, **Durban, South Africa.**
- XVIII edition of the “Festival delle Scienze - IMMAGINARI” organized by Fondazione Musica per Roma-18th-23rd of April 2023, **Rome, Italy.**
- ORCID board meeting as member of board of directors (28 Feb.-2 March) 2023, **Paris, France**
- International conference on chemistry for human development, 9-11 January **2020, Kolkata, India.**
- World science forum, 20-23 November 2019, **Budapest, Hungary.**
- The African Academy of Science (AAS) Research Management Programme in Africa (ReMPro Africa), 3rd Global Stakeholders’ Workshop, 2-3 September 2019, **Cape Town, South Africa.**
- SARIMA Conference, 3-6 September 2019, **Cape Town, South Africa.**
- 3rd Biennial Global Conference of the International Network for Government Science Advice, INGSA2018 – Science Advice for a Changing World, November 6th-7th, 2018, **Tokyo, Japan.**
- 16th Globlincs international conference-23-26th October 2018, **Accra, Ghana.**
- 3rd edition of the International Symposium on Youth Employment Challenges (ISYEC’18), 26th February-1st March 2018, **Abdullah Gul University, Kayseri, Turkey.**
- World science forum, 7-11 November **2017, Jordan.**
- AAAS annual meeting, 16-20 Feb. **2017-Boston-USA.**
- Broadening the scope of science advice workshop, 28th September, and the 2nd INGSA conference on science and policy making (towards a new dialogue, 29-30 September, **2016, Brussels, Belgium.**
- UNESCO high-level roundtable on (Galvanizing science education and research for fostering an innovation culture in the Arab-region, 4th November **2015, Budapest, Hungary.**
- World Science Forum, 3-7 November **2015, Budapest- Hungary.**
- 2nd Arab-American Frontiers of Science, Engineering, and Medicine symposium, hosted by

The Research Council (TRC) of Oman in Muscat, 13-15 December **2014, Muscat, Oman.**

- Global Civics curriculum development workshop- 12-14 August, **2014, Amman- Jordan.**
- 1st international conference on Nanotechnology, opportunities and challenges, (ICON008), June, 17- 19, 2008, **Jeddah- Saudi Arabia.**
- International conference on (Controlled/ Living polymerization from synthesis to application) – CLP07- 25- 29 October, 2007**Antalya- Turkey.**
- 1st international symposium on innovations in advanced materials for electronics and optics- June, 2006, **La Rochelle- France.**

GYA & young academies meetings:

- The 2nd SAYAS (South African young academy of sciences) symposium on science and society in Africa, 28-29 September 2015-**Cape Town, South Africa.**
- The Global Young Academy (GYA) 4th International Conference of Young Scientists and Annual General Meeting “Natural Resources in a Finite World “between 21 – 25 May 2014, **Santiago, Chile.**
- The first meeting for establishment of the Islamic Academy of young scientists organized by Islamic educational scientific and cultural organization (ISESCO)–27-29 April- 2014-**Khartoum- Sudan.**
- The global young academy (GYA)-1st Africa young academies regional conference- 3-5th February 2014, **Nairobi-Kenya.**
- 3rd General assembly of global young academy (GYAGA 2013- Demography and global research)- 15-18 May- 2013-**Halle- Germany.**
- Workshop on global state of young scientists, 13-15 May, 2013, **Hannover, Germany.**
- General Assembly meeting of the Global Young Academy (GYAGA)- 20-24 May 2012- **Johannesburg, South Africa.**
- The 1st German Arab Young Scientists Forum organized by German young academy and the young academy of the Arabic world- 16 – 19 June **2011, Berlin- Germany.**
- 1st international conference for young scientists & the annual general assembly of the Global Young Academy (GYA), (GYAGA-2011), under the themes of (The role of young scientists in the global sustainable development), 20-22 March 2011- **Berlin- Germany.**
- The Workshop on Founding the Global Young Academy (GYA)- 14- 16 February 2010, **Berlin- Germany.**

TWAS/IAP meetings

- 1st TYAN-TWAS international thematic workshop (fundamentals of photoelectron-chemistry:

from materials chemistry to energy conversion), 23-27 April 2018, **Chascomus, Argentina.**

- TWAS-TYAN meeting, 22-24 August, 2017, **Rio De Janeiro, Brazil**
- AAAS-TWAS Science Diplomacy summer course/workshop- July 2016, **Trieste-Italy.**
- Third world academy (TWAS) annual conference- TWAS 25th general meeting- 25-28 October 2014, **Muscat-Sultanate of Oman.**
- KAST-ASM-IAP Workshop on ‘Science Literacy: Science Communication and Science Outreach’, jointly organized by Korean academy of science and technology (KAST), academy of sciences Malaysia (ASM) supported by IAP – the global network of science academies, association of academies and societies of sciences in Asia (AASSA), international science, technology and innovation centre (ISTIC) for south-south cooperation under the auspices of UNESCO, 12 – 13 June 2014, **Seoul, South Korea.**
- 24th General meeting of the world academy of sciences for the advancement of science in developing countries- 1-4 October 2013, **Buenos Aires, Argentina.**
- General Assembly meeting of TWAS 18-21 September 2012- **Tianjin- China.**
- TWAS 22nd General Meeting, 21-23 November 2011, **Trieste, Italy.**
- Attendance as selected active young scientist mentor -from all-over the world- in World Economic Forum- Summer Davos and 2nd inter-academy panel on international issues (IAP) conference for young scientists- Annual Meeting of the New Champions (Driving Growth through Sustainability)- “Summer Davos” in Asia, 12-16 September, 2010, **Tianjin, China.**
- Attendance as selected active young scientist in World Economic Forum- Summer Davos in Asia- Annual Meeting of the New Champions 10-12 September 2009, **Dalian, China.**
- 2nd inter-academy panel on international issues (IAP) conference for young scientists in collaboration with the world economic forum, 10-12 September 2009, **Dalian, China.**
- IAP and NASAC Regional Workshop on the SDGs and STISA, 19 – 20 September 2018, **Nairobi, Kenya.**

Women in science meetings

- **Organizing founding chair of world forum for women in science, Egypt 2026.**
- **Honorary Chair of upcoming world fora for women in science in India (2025) and Japan (2026, Hiroshima)**
- **Speaker at (Women leading change) session organized by ASREN- 14th July 2025 (Online).**
- **Organizer/moderator of Science Diplomacy for future equitable partnership, on the occasion of International Day of Refugees- 20th of June 2025**

- **Chair of world forum for women in science-** (Envisioning the future) jointly with Festival delle Scienze, 15-19 April 2024, **Rome Italy.**
- **Honorary Chair** of World forum for women in science, 12-15 September 2022, **Malaysia (online)**
- **Speaker at** Next Einstein Forum, Africa science week, 19 June 2022 (online).
- **Speaker at falling walls**, conference on "Gendered Research for Sustainable Innovation" on 19-20 May 2022 (online).
- **Honorary Chair** of World forum for women in science, 3-5 November 2021, **Kenya (online)**
- Women in science: an inspiration for future generations organized by the science & development Association & Sultan Moulay Slimane University & the Higher School of Technology of Khenifra, 31st March **2021 Morocco (online).**
- **Honorary Chair** of World forum for women in science, dedicated to refugees and displaced people, 8-10 March 2021, **Duhok, Iraq (online).**
- Honorary Chair of World forum for women in science, 10-14 February, **2020, Rio De Janeiro, Brazil.**
- Gender action-mutual learning workshop-gender in international cooperation in science, technology and innovation, 7-8 November 2019, **Malta.**
- 'Women's Empowerment in Agriculture', the Arab-German Young Academy of Sciences and Humanities (AGYA), 25-27 June 2019, **Dubai/UAE.**
- International conference on women in science without borders (WISWB; Resilience in diversity), 21-23 March 2018, **Johannesburg, South Africa.**
- International conference on women & sustainable development in Africa, 8-10 March **2018, Dar es Salaam, Tanzania.**
- Training workshop on developing talents of women in science, technology and innovation, 3rd-6th August, 2015, **Kuala Lumpur, Malaysia.**
- Attendance as invited distinguished young woman scientist/ leader in 1st conference on Arab Women in Science and Technology-Empowerment for the development of the Arab World- 28-30 September 2009- **Dubai- United Arab Emirates.**

General online meetings

- ASTF conference, 19-21 December 2023 (science diplomacy in the Arab world).
- Catalyst session on Increasing public awareness about the importance of entrepreneurship in achieving SDGs: role of catalyst 2030, 2nd May 2023.
- Catalyst session on science and quality education are important pillars in achieving SDGs, 1st

May, 2023.

- Women in science celebration event organized by science for People-Africa, 24 March 2023.
- Role of gender equality in science based-sustainable development: Success stories of women scientists from North Africa, March 2023.
- World entrepreneurship week on the role of science and evidence-based entrepreneurship in developing societies and achieving the SDGs, November 2022.
- INGSA-Africa, NASAC workshop on [enhancing the capacity of academies of science in Africa to provide rapid science advice in emergencies such as the COVID-19 pandemic and other emerging infectious diseases, October 2022.
- Arab science week in two sessions [a] Arab women in science, where to go?
[b] the role of science in achieving the SDGs, October 2022.
- World forum for women in Science- 13-15 September 2022 [honorary chair and speaker], **Malaysia**
- 2nd Mediterranean Congress "Music and Science" organized by FACM in November 27, 2021, **Valencia, Spain**.
- Alexander von Humboldt stiftung foundation, Humboldt-Kolleg, “SLAVERY, FREEDOM, SUSTAINABILITY, AND PANDEMIC: DEBATES ON BRAZILIAN AND AFRICAN SOCIETIES IN HISTORICAL AND CONTEMPORARY PERSPECTIVE”, Porto Alegre – November 16-19, 2021, Campus of the Pontifical Catholic, University of Rio Grande do Sul (PUCRS), **Brazil** (online)
- DAAD alumni general meeting, 6th of November 2021, **Egypt**.
- Workshop on science diplomacy in **Brazil**, 7th of October 2021.
- The 12th International Fundamental Science Congress 2021, 24-26 August 2021, **Malaysia**.
- Bridging the Youths’ Transition from Conventional to E-leadership in a Digitalized World”, organized jointly by Mohammed V University in Rabat, Morocco and Adamas University, Kolkata, India, 8 May, **2021, Morocco (online)**.
- The workshop on Strategic Foresight, **10 November 2020** organized by GYA jointly with Policy Horizon **Canada**.
- Invited **speaker** on Networking, 15 October **2020, University of west Indies, Jamaica**.
- Invited **speaker** at Arab Forum of science media and communication, 21-24 February **2021**
- **Chair, organizer and moderator** of Youth Science Forum, **Egypt**, January 2021 (online)
- **Invited speaker at** international women in science webinar II organized by **African union** titled (women empowerment during and post COVID-19), 28th October 2020 (online).

- **Chair**, Organizer and moderator of **international Saturday science** webinars on (challenges facing humanity at the age of COVID-19 and beyond (September-December), **2020 (online)**.
- The Research and Innovation Management Associations' (RIMA) Leadership Workshop organized by the African Academy of sciences at the SARIMA Virtual Conference (SARIMA; Southern African Research & Innovation Management Association), 4-6 August **2020 (online)**.
- Invited speaker and advisory board member of Arab Science Week (ASW), August **2020 (online)**

National

- **Speaker** at workshop & Training “Working Environments in STEM”-Challenges in scientific work environments and the way forward organized by Arab-German Academy of sciences and humanities (AGYA), Nile University-Egypt, 14th of January, 2024
- **Panelist at** workshop organized on the International Day of Women in Mathematics, Thursday, 12th of May 2022, Nile University, Egypt.
- **National workshop on** (Towards green hospitals and sustainable development), 28 March 2022.
- **Speaker at public events as** in Heliopolis University, Arab academy for maritime transportation and technology, etc, March 2022.
- **Invited speaker at 10th** annual Ain Shams University International conference, Cairo, Egypt, 29-31 March 2022.
- **Attendance** of the international day of the intellectual property, Arab league, Cairo, Egypt, 26th May 2021.
- **Online lecture** on Polymers & Plastics, 24th March, 2021, CSSST-ASTF
- **International day** for women in science, 11st Feb.2021, British university in Egypt.
- **Youth science forum, Cairo, Egypt (Chair and organizer)**, 14-16 January 2021.
- **Cairo science forum**, November, 2019, NRC.
- **Eduvation summit-1**, 2 April 2016, Egypt.
- **1st Science Day of Egyptian Young academy of sciences (EYAS)- public simplified scientific lectures at** Mansura & Banha& Cairo& Beni Suf Universities- Egypt, March, 17th, 24th, 5th, 21st April 2015 to enhance science literacy and increase public awareness of science.
- **Solid state- Advanced Materials and their applications workshop**, 17-2-2015-Cairo-National Research Centre (NRC)-Egypt.
- **TWAS-ARO 10th** Annual Meeting "Research and Innovation for Sustainable Development in the Arab Region", 29-30 December 2014, Bibliotheca Alexandrina- Egypt.

- **TWAS-ARO 9th** annual meeting (Science and Technology Education for Sustainable Development in the Arab Region), 29-30 December 2013, Bibliotheca Alexandria-Egypt.
- **TWAS-ARO 8th annual meeting**, “The Role of Science, Engineering and Technology in Achieving Sustainable Human Development in the Arab Region”, 30-31 Dec., 2012, Bibliotheca Alexandrina.
- **The Association of Egyptian American Scholars (AEAS)** 39th annual conference and 40th anniversary celebration. The theme “ The Role of Modern Sciences and Emerging Technologies in Economic Development of the New Egypt " Dec. 2012, national research center, Cairo – Egypt.
- **First conference of the scientific research and the civil society**-Conference Hall, 24th – Cairo, Egypt, December-2012
- **The sixth edition of BioVision-Alexandria 22-25 April 2012** “New life Sciences: Linking Science to Society”, Alexandria, Egypt, moderator for Nobel laureates.
- **The Atlas of Islamic-World Science and Innovation Meeting**, “A Medium for Open Discussion”, Bibliotheca Alexandrina, Alexandria- Egypt, 9-10 May 2011.
- **Attendance as selected young affiliate** of the 6th Annual Meeting of the Academy of Sciences for the Developing World (TWAS-ARO)- "Linking Research Institutions, Universities, and Industry in the Arab World"- 22 -23 December- Bibliotheca Alexandrina- Alexandria- Egypt- 2011.
- **One-day seminar on** polymeric nano-particles for drug delivery systems- NRC- Cairo- April, 20th, 2010
- **5th international conference** for scientific researches and their applications- Cairo university- Cairo- Egypt, December, 21-24, 2009.
- **One-day seminar on nanotechnology**- Cairo University- May- 2009.
- **2nd international conference of the chemical industries** – NRC- Cairo- Egypt- Dec. 21- 23, 2008.
- **International conference** on molecular/ nano-photochemistry, photo catalysis and solar energy conversion- Solar 08- Cairo- Egypt, February, 24- 28, 2008.
- **One- day seminar on** (the role of physics in the applications of nanotechnology), British university in Egypt- BUE- January- 17th- 2008.
- **4th one- day seminar** on (Nanostructure science in solids and biological systems- Misr university of science & technology (MUST), 6th October city- Egypt, December, 27, 2007.
- **Egypt- Italy one-day workshop on** Renewable Energy and Waste to Energy Conversion, Ain Shams university, Cairo, Egypt, June, 11, 2007

- **Egyptian - German TEMPUS seminar**, Helwan University, Cairo, Egypt, June, 6-7, 2007.
- **3rd international conference** for scientific researches and their applications- Cairo university- Cairo- Egypt, May, 3-5, 2007.
- **2nd international conference** of chemical industries research division (chemical industries: role and future aspects), NRC, Cairo- Egypt, Nov. 21-23, 2006.
- **Biannual conference on chemistry**- Cairo university- Cairo, March 6, 2006.
- **TGA and DTA workshop** during the biannual conference on chemistry- Cairo university- Cairo, March 6, 2006.
- **US-Egypt workshop** on synthesis, characterization and industrial applications of nano-particles and nano-structured materials, Mubarak City for scientific research- Borg El- Arab- Alexandria- Egypt, Nov.12-15, 2005.
- **1st international conference of chemical industries research division**, NRC, Cairo, Egypt, 6-8 Dec., 2004.

Teaching/supervision

Supervising several post-graduate students in the field of controlled catalytic polymer-izations, nanotechnology and their vital various applications such as:

Master Students:

- Preparation of some novel polymers via atom transfer radical polymerization technique (2005- 2007-Rokya Ali).
- Synthesis and characterization of some highly functionalized nitrogen and/ or silicon containing hyperbranched polymers and nanocomposites (2007- 2009-Amina S. Taha).
- Studying the effect of using some prepared functional and nanostructured polymers in the modification of cement pastes (2008-2010-Samir Morsi).
- Synthesis and characterization of some functional polymers for using as cement admixtures (2009-2012-Mohamed Selim).
- Synthesis of some glycopolymers and nanocomposites for specific applications (2009-2013-Heba Salah).
- Preparation and characterization of hyperbranched polymers / layered Silicate nanocomposites for some Industrial Applications (2009-2013-Moshera Samy).
- Preparation and characterization of some polymeric nanocomposites for DC and AC electrical applications (2010-2013-Eman Helmy).
- Embedding of some nanostructured polymers in some Multiferroic Nano-Materials co - doped with some transition elements and rare earth metals prepared by Sol Gel technique

(Hasaballah-2014 till now)

Supervising additional PhD students such as:

- Utilizing agricultural wastes such as rice husks to prepare some polymeric nanocomposites for industrial application (Heba Salah- 2014- 2018).
- Polymeric Nano-particles: from Preparation to Biomedical Applications (Moshera Samy- 2014-current).
- Preparation of some polymeric materials embedded in nano-structured oxides using sol – gel technique for industrial applications (Eman Helmy- 2015- 2019)

Projects

- Vice principal investigator of Russian project on** (Design of Biodegradable polymeric drug carriers for anticancer therapy)- 2017-2019.
- Co-supervised** a local project on (polymeric Nano-particles: from preparation to biomedical Applications. (2013- 2016).
- Principal investigator** of French project (Polymer/ layered silicates nanocomposites: A promising way for vital applications)- Egypt-France Scientific and Technological Cooperation Program- IMHOTEP-2011-2013.
- Principal investigator** of US- Egyptian project on preparation of rice-waste reinforced urea-formaldehyde composites with improved moisture resistance, 2008-2013.
- Principal investigator** of a local project on (Nanostructured polymer-matrix nano-composites for various industrial applications), 2007-2010.
- Member of** a local project on (Studying the bioactivity and the biocompatibility of antibacterial and anticancer nanomaterials for use as bone substitutes), 2007-2010
- Co-supervised** a local project on the hyperbranched polymers and their applications in the medical industries (2005- 2007).
- Member of** STDF project on (Novel methods for developing the nano-science materials in DC and AC applications, 2009-2010).
- Member of** French project on (New nano-structured magnetoelectric materials based on doped BaTiO₃: from ceramics to sol-gel deposited nano-films), 2009.

Other activities

International

- Member** of the scientific, technological and innovation advisory council (STIAC) for ISTIC- UNESCO-Malaysia for two years (2026-2028)
- Coordinator lead author** for the 8th UNESCO scientific report responsible for chapter 4 on

scientific outputs and collaborations

-Founding Chair of World forum for science innovation and Entrepreneurship, February 2026.

-Cofounder and Chair of science for humanity-global society, Italy, 2024.

-Fellow of international science council (ISC), 2023.

-Evaluator of 2023 annual essay competition 'Young Voices in the Chemical Sciences for Sustainability' organized by the International Organization for Chemical Sciences in Development (IOCD), in collaboration with the Royal Society of Chemistry (RSC).

-Interviewed and consulted by (a) African population and health research center) on a study (African Research Culture - Opinion Research) & (b) Econoler and the World Bank to establish a Regional Network of women in the Eastern Africa Power Pool (EAPP) member countries.

-Nominator of international Vinfuture awards, May 2022.

-Member of board of directors of ORCID for 2022 and for 3 years' appointment.
<https://info.orcid.org/orcid-board/>

-Panel member of students' selection committee of pan African university (life and earth science institute), African union, Nigeria, December 2020-2023.

-Member of catalyst 2030 global initiative (2021 till now).

-Founder and chair of science diplomacy for the future global initiative.

-Cofounder and chair of the Northern African Research and Innovation Management Association (NARIMA) initiative, <https://sites.google.com/view/narima>

-Member of International Advisory board of Youth STEM Matters journal (community).

-Member of the society for the advancement of science and technology in the Arab world (SASTA).

-Cofounding member of the Academy of Engineering and Technology for the Developing World (AETDEW)-Malaysia-2017.

-Member of Three circles of Alemate mentoring program, Jordan, 2017.

-Supporting member and Ambassador of the New York academy of sciences-USA-2014-31/1/2016.

-Co-author of Global Civics modules for the Arab region- August 2014- Feb. 2015.

-Member of the task force (founding member) to establish the Islamic world academy of young scientists- (IWYAS-Sudan-April 2014)

-Member of Arab-German Forum-2011

-Member of Arab world association of young scientists (WAYS)-2011(network)

-Member of Islamic world young scientists' academy (IYSA)-2011 (network)

-Coordinator of the Arab Materials Science and Nanotechnology Network (AMSN)- 2009- till now. <http://amsn-network.astf.net>

-Principal investigator of the Egyptian- American memorandum of understanding between (National Research Centre- NRC) and (Michigan Technological University) - 2009.

-Principal investigator of the Egyptian- Georgian memorandum of understanding between (national research centre- NRC) and the (Georgian biotechnological centre) - 2007.

Women in science without borders activities

- Chair of World forum for women in science-2026 in Egypt

-Honorary Chair of World forum for women in science-2025 in Jordan & India.

-Chair and organizer of World Forum for Women in Science (WFWS)- 2024

8th International Conference of Women in Science without Borders (Envisioning Tomorrow Science for the SDGs and New Partnerships for Sustainable Futures), with Parco della Musica, Rome, Italy, 15-19 April 2024.

- Founding chair and co-organizer of world forum for women in science, Malaysia, September 2022.

-Founding chair and co-organizer of world forum for women in science, Nairobi, Kenya, November, 2021.

-Founding chair and co-organizer of world forum for women in science, Duhok, Iraq, 8-10 March 2021.

-Chair, organizer and founder of Youth Science Forum, January, 2021.

- Founding chair and co-organizer of world forum for women in science, 10-14 February, 2020, Rio De Janeiro, Brazil organized by Brazilian academy of sciences.

- Founding chair of the women in science without borders conference 2019 (science diplomacy for sustainable development), Egypt, 10-14 March 2019, supported by ASTF, Sanofi, Johnson & Johnson, IDB, BUE, ISC, GYA, NEF, JST, TWAS-TYAN, Brazilian Academy of Science.

-Founding chair and member of advisory board of WISWB 2018 in South Africa.

-Founding chair and organizer of the 1st international conference for women in science and international networking: bridging the gender gap in STEM in favor of sustainable development (Women in Science without Borders (WISWB))-21-23 March 2017. WISWB is supported by Wellcome trust, ICSU, EU, GYA, AAS, ISTIC, UNESCO, ASTF.

-Founder of women in science without borders (WISWB) initiative in 2016.

<https://women-in-science-without-borders.network/>

-Global Young Academy Activities

- Alumni of the** global young academy (2015)
- Member of** the mentoring program and adviser of women in science working group in global young academy (2015)
- Member** of the editorial board of global young academy connections (2013 till 2014).
- Co-organizer of** the global young academy (GYA)-1st Africa young academics regional Conference-Nairobi-Kenya-3-5th February 2014.
- Member of the executive committee** of the Global young academy - February- 2010- till May 2013.
- Member of the selection committee of** new candidates at the global young academy, February- 2010- till 2014.
- Member** of the Global academy of young scientists (global young academy-GYA), 2010-2014.
- Founder/ group leader** of the women in science working group in global young academy, May 2012 till 2014.
- Member of** the Young Scientists Ambassador Program- Summer Davos- 2010 (<http://www.chem.ufl.edu/~miller/YSAP>)
- Co-founder** of the Global young academy, February 2010 in Berlin, Germany.
- Organizer of global young academy general assemblies** (GYAGA) for years 2011 and 2012 in Egypt which were not held due to the Egyptian revolution.
- Organizer of the workshop on founding** Global Academy of Young Scientists (GYA)- February 14-16, 2010- Berlin, Germany.

TWAS/IAP related Activities

- Fellow of TWAS 2026** in the field of chemical sciences.
- Member of** the committee to review the candidates for the TWAS-Atta-ur-Rahman Award for three-year period 2021-2023
- Member** of (the Science in Exile (interim) steering committee for refugees and displaced scientists), June 2021-June 2022 (new initiative launched by TWAS-IAP-ISC)

<https://scienceinexile.org/steering-committee>

- Member of the selection committee for candidates according to science in exile initiative (COMSTECH-TWAS)**
- Member of** the network for young scientists' affiliates and alumni for TWAS (TWAS-TYAN),

2016 till now

-Young affiliate of the (Third World Academy of Sciences) TWAS-ARO for 2010-2014 (for significant scientific achievements as young affiliate). (TWAS: the world academy of sciences for the advancement of science in developing countries.

-Contributor in Atlas of Islamic world-science and Innovation-Egypt study, 9-10 May, 2011.

-Attendance of several TWAS & TWAS-TYAN events and sharing in TWAS activities as reviewer of grants, participant in TWAS-AAAS science diplomacy course, etc.

-Member in organization for women in science for the developing world (OWSD), 2016.

--Nomination from IAP as member of the selection committee for young scientists to participate in the IAP Young Scientists Conference in Tianjin in September 2010.

-Sharing in several IAP related activities as participation at conferences, acting as reviewer, etc

National

-Founder and president of science for humanity foundation, Egypt 2025.

-Organizer and coordinator of Workshop on (Entrepreneurship and research management: From Labs to market), Monday, 15th January 2024, National Research Center (NRC), Egypt.

Co-organizer of and speaker at science days organized by Egyptian young academy of sciences (EYAS, March- April 2015/ Egypt)- **public simplified scientific lectures** at Mansura, Banha & Cairo& Beni Suef Universities to enhance science literacy and increase public awareness of science.

-Member of the advisory board, steering committee and cofounder of the Egyptian young academy of sciences (EYAS), 2013/2014 till now.

-Organizer of one-day workshop on nanotechnology: challenges and future aspects-advanced materials and nanotechnology group-centre of excellence- national research Centre-Cairo- Egypt- 13 March 2013.

-Member of the steering committee of the Egyptian young academy of sciences (EYAS), May 2012.

-President and founder of Egyptian society of advanced materials and nanotechnology, Dec., 2006 till now.

-Organizer of Fall Courses program & workshop on Nanotechnology (Introduction to Nanotechnology and its Applications)- FCPN09- 28-30 September 2009 - (NRC)- Egypt.

-Coordinator and organizer of the 1st international joint conference on materials science and biotechnology- NRC- Cairo- Egypt- January, 4-6, 2009.

-Coordinator and organizer of the 1st international conference on advanced materials &

nanotechnology, New Challenges, NRC, Cairo, Egypt, December 2-4, 2007.

-Organizer of the 3rd workshop on Materials Science & Nanotechnology- Sustainable Development in Materials Science towards New Applications – NRC- Cairo- Egypt, September 5th 2007.

-Organizer of the first workshop on the advanced materials and the nanotechnology in NRC (The relevance between the advanced materials and the nanotechnology), NRC, Cairo, Egypt, Nov., 26-27, 2006.

Reviewer for

- Member of the committee to review the candidates for the TWAS-Atta-ur-Rahman Award for chemistry (2021-2023)

-Reviewer for PhD theses presented to UPM, Malaysia, 2022 & 2024.

-ASM-AAAS-TWAS regional course on science diplomacy, March 2021, **Malaysia**.

-Panel Member of Students' Selection Committee with the Pan African University Institute of Life and Earth Sciences (Including Health and Agriculture), University of Ibadan, **Ibadan, Nigeria (2020-2023)**.

-African academy of sciences (AAS) grants for international research management staff development program.

-Membership for Spanish young academy, 2020.

-TWAS membership, May 2019

-Reviewer for IAP project report on (Harnessing STI to address Africa's challenges: the role of African national academies of science), June 2019

-TWAS-TYAN collaborative grant award (TCGA, 2018)

-Polymer-plastics technology and materials, 2020

-Polymers for advanced technologies & progress in organic coatings & plastics, rubber and composites: macromolecular engineering (2018,1 for each)

-Journal of polymer engineering and science (2017; 1), designed monomers and polymers (1) 2016& polymer bulletin (1) 2016& International Journal of Polymeric Materials (1) 2016.

- The Olusegun Obasanjo Prize for Scientific Discovery and/ or Technological innovation-The African academy of sciences- June 2015.

-J. of Macromolecular Materials and Engineering, Journal of applied polymer science, European polymer journal, Journal of polymer engineering & science, Springer Briefs Series-Springer, Advances in polymer technology, 2012/ 2013 TWAS research grants in basic sciences (4-3-2013), **2012 TWAS** Fellowship for Research and Advanced Training Fellowship Programme

(R&A Training Fellowship Programme-23-11-2012), **2013 TWAS** Research and Advanced Training Fellowship Programme (R&A Training Fellowship Programme-10-12-2013).

Member of national organizations as:

- a) Association of Egyptian American Scholars-Inc. (AEAS)
- b) The Egyptian society of polymers and pigments.
- c) The Egyptian society of advanced materials and nanotechnology.
- d) The community of the young researchers in national research centre (NRC)
- e) The advanced materials and nanotechnology group (AMNTG) at the centre of excellence in the national research centre (NRC)

Awards/Grants

-Woman of Impact Award-Egypt (Women of Egypt, 2025)

-Peace Leadership in Science and Technology, **Exceptional Women of Peace Awards given by Pathways to peace organization, September 13th, 2024.**

-Honouring as one of the **distinguished Egyptian women** in March 2022 **by the ministry of culture.**

-DAAD short visit-visiting professor at Kiel University, 2021.

-(women of Egypt) recognition as one of 40 most successful Egyptian women over 40 (2020) & one of distinguished Egyptian women (women of Egypt; hall of fame) in the category of science (2020-2021)

-Outstanding women in tech award of Africa (Africa; 2021)

-The award of science by women provided by women for Africa foundation (Spain, 2021)

-Recipient of grants from Wellcome Trust, Johnson & Johnson, Elsevier foundation, Sanofi, L'Oreal, etc.

-Arab science and technology foundation (ASTF) award, 2019.

-Nominated to IUPAC prize (2015) for distinguished women in chemistry and chemical engineering- by Prof. Dr. George Newkome (Akron Univ.-USA), Prof. Dr. Patricia Heiden (Michigan technical Univ.-USA), Prof. Dr. Gregory Weiss (U.California Irvine-USA).

-National research centre award (2014) for best applied master thesis under my supervision (Preparation and characterization of some polymeric nanocomposites for DC and AC electrical applications (Eman Helmy- 2010-2013).

-National research centre award (2013) for best master thesis under my supervision (Preparation and characterization of hyperbranched polymers / layered Silicate nanocomposites for some Industrial Applications (2009-2013-Moshera Samy)

- National research centre award (2013) for best applied research paper** (The effect of presence of glycopolymer grafts in Poly N-isopropylacrylamide / clay nanocomposite hydrogels, **Amal Amin**, Heba Kandil, Mohamed Nader Ismail, **Polymer-Plastics Technology and Engineering- 52: 1034–1042, 2013**).
- National research centre award** for distinguished scientific achievements-2011 & 2012& 2013.
- National research centre award** for distinguished papers-2015 & 2016.
- Selected TWAS Young affiliate** (distinguished young scientist- one of 5 in Arab region) from 2010-2014.
- Distinguished young scientist and mentor** by Egyptian academy and IAP- 2010.
- US- Egypt young scientists visit grant**- USA- June 2010.
- Distinguished young scientist** by Egyptian academy and IAP- 2009.
- DAAD- post doctor fellowship**-2008- Germany.
- DAAD PhD- scholarship**- 1999- Germany.
- Scholarship from Egyptian academy** as research fellow at NRC- 1993.

Research and other Interests

- 1) Synthesis of highly functionalized hyperbranched, star polymers and other nano-structured polymeric materials via different synthetic routes.
- 2) Employing those polymers in several application as in solar energy as renewable energy, pharmaceuticals, drug delivery systems and building materials.
- 3) Manufacturing of nanocomposites from clay or silica/ hyperbranched polymers for several industrial applications.
- 4) Preservation of the clean environment by disposal of wastes including agricultural wastes by using the nanostructured polymers.
- 5) Science policy, education, entrepreneurship and intellectual property.
- 6) Enhancing scientific literacy and increasing public awareness of science.

References

- Prof. Dr. George Newkome, ex-vice president of the University of Akron-USA.
- Prof. Dr. Patricia Heiden, University of Michigan- USA.
- Prof. Dr. Mahmoud Abd El-Ghaffar, senior professor at NRC.
- Prof. Dr. Abbas Abd El-Kereem, senior professor at NRC.
- Prof. Dr. Magdy El Sabaa, senior professor at Cairo University.
- Prof. Dr. Usama Kandil- Egyptian Petroleum Research Institute.

Some selected publications (58)

National (5)

1. Copolymerization of N-acryloyl para aminobenzoate with some vinyl monomers. M.H.Ayoub, S.M.Sayyah, **A.Amin**, **Egyptian journal**, 1996.
2. Spectroscopic and TLC studies on some homo and copolymers of N-acryloyl para-amino benzoate. S.M.Sayyah, M.H.Ayoub, **A.Amin**, **Fourth international conference on frontiers of polymers and advanced materials, Cairo, Egypt, 1997.**
3. Synthesis of three arm star polymers of glycidyl methacrylate and hydroxyethylmethacrylate via ATRP. **A.Amin**, R.Sobh, M.M.H.Ayoub, **Egyptian Journal of textile and polymer sciences & technology**, 12, 1, 1, 2008
4. Enhancement of the compatibility of NBR/ SBR blend by new functional polymers prepared via ATRP, **A. Amin**, S. El-Sabbagh, **Egypt. J. Text. Polym. Sci. Technol**, 13, 1, 1-19, 2009.
5. Preparation of Aliphatic polyester hyperbranched polymers with new ends via RAFT polymerization, **A.Amin**, D. Appelhans, B.Voit, **Egypt. J. Text. Polym. Sci. Technol**, 2012.
6. Renewable Energy and Economic Growth: A Pathway to Sustainability, Anwaar Ali, Amal Amin, Nihal Mounir Darraj, Amany A. Aboulrous, **ASTJ** vol. 3, no. 2 (2026), P 1096
10.21608/astj.2025.442666.1096
<https://astj.journals.ekb.eg/>
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International (8 non-Scopus)

1. Utilization of trimethylolpropane based hyperbranched poly (amine-ester) as new polymeric admixture, **Amal Amin Ibrahim**, Ahmed El-Sayed Abdel-Magied, Mohamed Sayed Selim, Magdy Mohamed Hussein Ayoub, **Open Journal of Organic Polymer Materials**, 2, 23-28, 2012.
2. Tethering of homo and block glycopolymer chains onto montmorillonite surface by Atom transfer radical polymerization, **Amal Amin**, Heba Kandil, Ahmed Ramadan, Mohamed Nader Ismail, **Open Journal of Organic Polymer Materials**, 2, 80-88, 2012.
3. Preparation of homo and block glycopolymer/ layered silicate nanocomposites by Surface-Initiated Atom Transfer Radical Polymerization, **A. Amin**, H.S. Kandil, A. Ramadan, M. N. Diab, **Journal of Colloid Science and Biotechnology**, Vol. 2(3), 226-235, 2013, <https://doi.org/10.1166/jcsb.2013.1056>

4. New polymeric admixture for cement based on hyperbranched Poly amide-ester with Pentaerithritol Core. **Amal Amin Ibrahim**, Ahmed El-Sayed Abdel-Megied, Mohamed Sayed Selim, Hassan Hassenen Darweesh, and Magdy Mohamed Ayoub- international scholarly research notices (**ISRN Materials Science**), **2013**, Article ID **270987**, [http:// dx. Doi. Org/ 10.1155/2013/270987-2013](http://dx.doi.org/10.1155/2013/270987-2013).
5. Dielectric behavior of some vinyl polymers/ montmorillonite nanocomposites on the way to apply them as semiconducting materials, **Amal Amin**, Eman. H. Ahmed, M.M.H Ayoub, Magdy W. Sabaa, Inas K.Battisha, **Open Journal of Organic Polymer Materials**, **3**, 73-80, **2013**.
6. Dielectric Properties of Vinyl Polymers/Montmorillonite Clay Nanocomposites Prepared via Surface Initiated Atom Transfer Radical Polymerization, **Amal Amin**, Eman H. Ahmed, Magdy M. H. Ayoub, Magdy W. Sabaa, and Inas K. Battisha, **Mater. Focus** **2(5)**, 406-414, **2013**.
<https://doi.org/10.1166/mat.2013.1110>
7. Employing of novel poly (amine-ester) with Pentaerithritol core as a new polymeric admixture for cement, **Amal Amin Ibrahim**; A. E. Abdel-Megied; M. S. Selim; H. H. Darweesh; M. M. Ayoub, **International Journal of Engineering Research and Application (IJERA)**, Vol. 5, Issue 1, (Part -6), 26-39, 2015.
8. Effect of Increasing Temperature on 1.5 μm Spectroscopic Emission of Er^{3+} Ions Activated Phospho-silicate Thin Film, Eman Helmy Ahmed, Magdy Mohamed Hussein Ayoub, Ahmed Ismael Hashem, Claudia Wickleder, Matthias Adlung, Amal Amin, Inas Kamal Battisha, **International Journal of Photochemistry and Photobiology**, **2021**; **5(2)**: 28-35,
doi: 10.11648/j.ijpp.20210502.13.

International (45 Scopus)

1. High yield synthesis, separation and structural characterization of new (n+n) polyaza-macrocycles. Allmendinger, M.; **Amin, A.**; Rieger, B., **Heterocycles**, **60**, **5**, 1065, **2003**.
2. Employing Imine Macrocycle Ligand in the Atom Transfer Radical Polymerization of Methyl Methacrylate, **A. Amin**, M. H Ayoub, M. Abd El-Ghaffar, B. Rieger, **Macromol.Sci. J., Part A, Pure and Appl. Chemistry**, **42**, **8**, 1047, **2005**.
3. Preparation and characterization of homo and co – polymers of some vinyl monomers via ATRP by using Imine macrocycle as ligand, **A. Amin**, M. H Ayoub, M. Abd El-Ghaffar, B. Rieger, **Macromol.Sci. J., Part A, Pure and appl. Chemistry**, **42**, **10**, 1329, **2005**.
4. Three Arm Star homo- and block co-polymers via atom transfer radical polymerization

A.Amin, R.Sobh, M.M.H.Ayoub, *Macromol.Sci. J., Part A, Pure and appl. Chemistry*, 43, 4-5, 667, 2006.

5. Amphiphilic star homo- and block co-polymers of 2-(dimethylamino) ethyl methacrylate via Atom Transfer Radical Polymerization, **A. Amin, *Macromol.Sci. J., Part A, Pure and appl. Chemistry*, 44, 329, 2007.**

6. Atom transfer radical polymerization of some vinyl monomers catalyzed by imine macrocycle copper (I) complex, **A.Amin, M.A.El-Ghaffar, *polym. Bull*, 59, 6, 721, 2008.**

7. Synthesis of novel poly amido- hyperbranched polymers via self-condensing atom transfer radical polymerization. **A.Amin, M.A.El-Ghaffar, *Polymer-Plastics Technology and Engineering*, 47, 10: 984–990, 2008**

8. Preparation of some Br-ended MMA three arm-star block copolymers via ATRP and other amphiphilic hydroxyl ended ones. **A.Amin, M.M.H.Ayoub, *Polymer-Plastics Technology and Engineering*, 47, 10: 1002–1007, 2008**

9. Modification of some hyperbranched polyols with oligo (ethylene oxide) units on the way to new applications, **A. Amin, M. Abdel Rehim, H. Mohamed, *Polymer- Plastics Technology & Engineering*, 47, 12, 1250- 1255, 2008.**

10. Aliphatic Poly amidoamine Hyperbranched Polymers / Layered Silicate Nanocomposites, **A. Amin, A. S.Taha, M.A.El-Ghaffar, *J. App. Polym.Sci.*, 118, 1, 2010.**

11. Preparation and characterization of some silicone containing polymers/ layered silicate nanocomposites, **A.Amin, A. S. Taha, M. A. El-Ghafar, *Journal of nano-structured polymers and nano-composites*, 7, 2, 70, 2011.**

12. Employing of Some Hyperbranched Polyesteramides as New Polymeric Admixtures for Cement, **A.Amin, S. Morsi, Darweesh, H.H.M., M.M.H.Ayoub, *Journal of Applied Polymer Science*, 121, 309–320 (2011).**

13. Effect of Phthalic anhydride based Hyperbranched Polyesteramide on Cement Characteristics, **A.Amin, S. Morsi, Darweesh, H.H.M., M.M.H.Ayoub, *Journal of Applied Polymer Science*, 120, 3054–3064 (2011).**

14. Chemical and nanomechanical analysis of rice husk modified by ATRP-grafted oligomer, Samir M. Morsi, Anahita Pakzad, **Amal Amin, Reza S. Yassar, Patricia A. Heiden, *Journal of Colloid and Interface Science*, 360, (2011) 377–385.**

15. Modification of cement with Succinic anhydride based hyperbranched Polyesteramide, **A.Amin, S. Morsi, H.H.M.Darweesh, M.M.H.Ayoub, *Journal of Applied Polymer Science*, 124, 1483–1489 (2012).**

16. Poly(ester-amine) hyperbranched polymer as toughening and co-curing agent for epoxy/clay nanocomposites, Mohamed M. Eissa, Moshera S.A. Youssef, A.M. Ramadan, **Amal Amin, Journal of polymer engineering and science-53, 1011-1020, 2013.**
17. Synthesis of polymer-clay nanocomposites of some vinyl monomers by surface-initiated atom transfer radical polymerization, **A. Amin**, R. Sarkar, C. N. Moorefield, George R. Newkome, **Designed Monomers and Polymers- Vol. 16, No. 6, 528–536, 2013.**
18. Preparation of different Dendritic-Layered Silicates Nanocomposites, **A. Amin**, R. Sarkar, C. N. Moorefield, George R. Newkome, **Journal of polymer engineering and science- vol.53, 10, 2166-2174, 2013.**
19. The effect of presence of glycopolymer grafts in Poly N-isopropylacrylamide / clay nanocomposite hydrogels, **Amal Amin**, Heba Kandil, Mohamed Nader Ismail, **Polymer-Plastics Technology and Engineering- 52: 1034–1042, 2013.**
20. Preparation and characterization of some hyperbranched polyesteramides/ montmorillonite nanocomposites- **Amal Amin** and Moshera Samy, **International Journal of Polymer Science, Vol. 2013, Article ID 528468, <http://dx.doi.org/10.1155/2013/528468>.**
21. Using of hyperbranched poly (amidoamine) as a novel pre-tanning agent for leather, **Amal Amin Ibrahim**, Moshera S. A. Youssef, El-Shahat H. A. Nashy, and Mohamed M. Eissa, **International Journal of Polymer Science, Volume 2013, Article ID: 120656, <http://dx.doi.org/10.1155/2013/120656>, 2013.**
22. Preparation of dendritic adamantane based polymer/ layered silicate nanocomposites, **Amal Amin**, Heba Kandil, Mohamed Nader Ismail, Nergis Makal, Charles N. Moorefield, George R. Newkome, **journal of polymer engineering and science – Volume 54, Issue 11, 2669–2675, 2014.**
23. Preparation and characterization of chitosan-hydroxyapatite-glycopolymer/ cloisite 30B nanocomposite for biomedical applications, **Amal Amin**, Heba Kandil, Mohamed Nader Ismail, **Polymer Bulletin, 72, 1497-1513 (2015).**
24. Amino-terminated hyperbranched polymer for toughness improvement of epoxy/clay nanocomposites. Mohamed M. Eissa, Moshera S.A. Youssef, A.M. Ramadan, **Amal Amin, Polymer Bulletin, 72(12), 3147-3168 (2015).**
25. Preparation and evaluation of hyperbranched p-chloromethyl styrene polymers/ montmorillonite clay nanocomposites as dielectric materials, **Amal Amin**, Eman. H. Ahmed, Magdy S. Wadeed, Magdy M.H Ayoub, Inas K. Battisha, **Polymer Bulletin, 73(1), 147-162 (2016).**

26. Thermal Effect of Er ³⁺ Ions Embedded in Smart Nano-Composite Oxide Material Prepared by Sol-Gel Technique, IK Battisha, MMH Ayoub, AI Hashem, EH Ahmed, **A Amin, Acta Physica Polonica, A. 132 (4), 2017.**
27. Assessment of formulation parameters needed for successful Vitamin C entrapped Polycaprolactone nanoparticles, **Amal Amin**, moshera Samy, Sameh Hosam Abd El-Alim, Abd El Gawad Rabia, Magdy M. H. Ayoub, **International Journal of Polymeric Materials and Polymeric Biomaterials, 67(16), 942-950, 2018.**
28. Assessment of modified rice husk powder / ethylene propylene diene monomer (EPDM) nanocomposites for biomedical applications, **Amal Amin**, Heba Kandil, Abdelmohsen Soliman, A.M. Rabia, Doaa E.El. Nashar, Mohamed Nader Ismail, **Journal of polymer composites, 38(S1), 2018.**
29. Enhancing the mechanical and dielectric properties of EPDM filled with nanosized rice husk powder, **Amal Amin**, Heba Kandil, A.M. Rabia, Doaa E.El. Nashar, Mohamed Nader Ismail, **Journal of Polymer-Plastics Technology and materials, 58 (8), 915, 2019.**
30. Phosphosilicate–polyamidoamine hyperbranched polymer–Er³⁺ nanocomposite toward planar optical waveguide applications, **Amal Amin**, Eman H Ahmed, Claudia Wickleder, Matthias Adlung, Magdy H Ayoub, Inas Kamal Battisha, **Polymer Composites, 40(5), 2029-2038 (2019).**
31. Physical properties of the Tb³⁺ and Ho³⁺ ions embedded in nano-composites phospho-silicate, Eman H. Ahmed, **A. Amin**, M. M. H. Ayoub, A. I. Hashem, and I. K. Battisha, **Acta Physica Polonica A, 137(6), 1037-1042, 2020.**
32. Formulation, characterization and in vitro release study of 5-fluorouracil loaded chitosan nanoparticles, Moshera Samy, Sameh Hosam Abd El-Alim, Abd El Gawad Rabia, **Amal Amin**, Magdy M. H. Ayoub, **International journal of biological macromolecules, 156, 783-791, 2020.**
33. RAFT Terminated Hyperbranched Functionalized Nano Rice Husk Powder / EPDM Nanocomposite for Biomedical Applications, Heba Kandil, Eslam R.El-Sawy, Hanem M. Awad, Doaa E. El. Nashar, **Amal Amin, Journal of Polymer-Plastics Technology and materials, 59(18), 2027-2039, 2020.**
34. Nanocomposites dendritic polyamidoamine based chitosan hyperbranched polymer for waveguide applications, Eman H. Ahmed, Ahmed I. Hashem, Matthias Adlung, Claudia Wickleder, Magdy M. H Ayoub, Inas K. Battisha, **Amal Amin, polymer-plastics technology and materials, 2021, 60, 7, 744-755.**
35. Cutting-edge development in dendritic polymeric materials for biomedical and energy

applications, Mohammad R.Thalji, **Amal Amin Ibrahim**, Gomaa A.M.Ali, **European Polymer journal**, **160**, 110770, 2021.

36. Functionalized PVA film with good adsorption capacity for anionic dye, Kandil, H., Abdelhamid, A.E., Moghazy, R.M., **Amin, A.**, **Polymer Engineering and Science**, **2022**, **62(1)**, pp. 145–159.

37. Mercury bioremediation in aquatic environment by genetically modified bacteria with self-controlled biosecurity circuit, Yubin Xue, Pei Du, Amal Amin Ibrahim Shendi, Bo Yu, **Journal of Cleaner Production**, **Volume 337**, 130524, 2022.

38. Promising antimicrobial material based on hyperbranched polyacrylic acid for biomedical Applications, Heba kandil, **Amal Amin**, Shaimaa A. Nour, **International journal of polymeric materials and biomaterials**, 2022

39. Tailoring chitosan nanocomposites for planar optical waveguide applications, Eman H. Ahmed, Ahmed I. Hashem, Matthias Adlung, Claudia Wickleder, Magdy M. H Ayoub, Inas K. Battisha, **Amal Amin**, **J. of Polymer science (A)**, **Vol. 64**, issue 4, June 2022.

40. Glycopolymer based materials: Synthesis and Biosensing Applications, Mohammad R. Thalji, **Amal Amin Ibrahim**, Kwok Feng Chong, Alexander V. Soldatov, Gomaa A.M. Ali, **Topics in current chemistry**, **380(5)**, 1-33, 2022

41. Enhancing the adsorption affinity of cellulose acetate film toward cationic dye by incorporating Cloisite 30B grafted with polyacrylic acid, Heba Kandil, Reda M. Moghazy, Amal Amin, **J.Polymer Engineering and science**, 63(3), 769-781, 2023.

42. Hydroxyapatite/ hyperbranched polyitaconic acid /chitosan composite scaffold for bone tissue engineering, Heba Kandil, Basma Ekram, Mona A.M. Abo-Zeid, Bothaina M. Abd El-Hady, **Amal Amin**, **journal of polymer composites**, **2023**, **44(9)**, 2023, 5633-5646.

43. ICVD polymer thin film bio-interface-performance for fibroblasts, cancer-cells and viruses connected to their functional groups and in silico study, Torge Hartig, Asmaa T. Mohamed, Nasra F. Abdel Fattah, Aydin Gülses, Tim Tjardts, Esther Afiba Kangah, Kwing Pak Gabriel Chan, Salih Veziroglu1, Yahya Acil, Oral Cenk Aktas, Jörg Wiltfang, Samah A Loutfy, Thomas Strunskus, Franz Faupel, **Amal Amin**, Stefan Schröder, **J. advanced materials interfaces**, <https://doi.org/10.1002/admi.202300587>

<https://www.uni-kiel.de/en/details/news/076-icvd-beschichtung>

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44. Novel Green Sustainable Hydrogel Composites based on guar gum and Algal species for wastewater remediation from some toxic pollutants, Mohamed keshawy, Rasha S. Kamal, Ahmed E. Abdelhamid, Ahmed Labena, Amal Amin, Abdulraheim M.A. Hasan and Manar E. Abdel-raouf, Rice husk/poly lactic acid for biomedical applications, International Journal of Environmental Science and Technology, Dec. 2024.

<https://link.springer.com/content/pdf/10.1007/s13762-024-06159-6.pdf>

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48. Ethylene Brassylate-DL Lactide copolymer/multiwalled carbon nanotubes for versatile applications, in press

49. Chitosan-PVA hydrogels -5 fluorouracil for drug release as antimicrobial and anticancer material, Amal Amin,....., Jose-Ramon Sarasua, in press

50. Preparation of multi-purposes Poly lactide-polyethylene Glycol-Chitosan Rice husk composites for several potential applications, XABIER LARRAÑAGA, Amal Amin, Aitor Larranaga, Prof. Jose-Ramon Sarasua, in press

Patents

Polymeric silica phosphate nanocomposites and their applications in planar optical wave guide, Egyptian Academy of scientific research and technology (ASRT), 30473, 2021.

Other Non-scientific publications/documents

1. WISWB books/documents:

<https://drive.google.com/drive/my-drive?q=parent:0APvS1wwXwMUxUk9PVA%20type:pdf>

Publications

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4. **Global young academy (GYA) connections**, 3, 2014.

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<http://www.universityworldnews.com/article.php?story=20161212121515275>.

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<http://www.abc.org.br/centenario/?Diplomacia-cientifica-ponte-para-a-paz-2017>

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