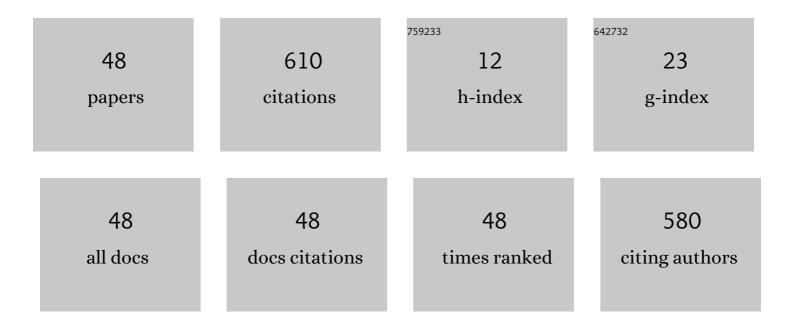
## Emad M A Ahmed

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Reduced graphene oxide nanosheets decorated with Au, Pd and Au–Pd bimetallic nanoparticles as highly efficient catalysts for electrochemical hydrogen generation. Journal of Materials Chemistry A, 2015, 3, 20254-20266.	10.3	146
2	Responsibility of Bi2O3 Content in Photon, Alpha, Proton, Fast and Thermal Neutron Shielding Capacity and Elastic Moduli of ZnO/B2O3/Bi2O3 Glasses. Journal of Inorganic and Organometallic Polymers and Materials, 2021, 31, 3505-3524.	3.7	53
3	Enhancement of the optical and mechanical properties of chitosan using Fe2O3 nanoparticles. Journal of Materials Science: Materials in Electronics, 2017, 28, 10877-10884.	2.2	46
4	FT-IR, ultrasonic and dielectric characteristics of neodymium (III)/ erbium (III) lead-borate glasses: experimental studies. Journal of Materials Research and Technology, 2021, 13, 1363-1373.	5.8	40
5	Aluminum Titania Nanoparticle Composites as Nonprecious Catalysts for Efficient Electrochemical Generation of H <sub>2</sub> . ACS Applied Materials & Interfaces, 2016, 8, 23655-23667.	8.0	25
6	Chitosan-based nanocomposites: preparation and characterization for food packing industry. Materials Research Express, 2021, 8, 025017.	1.6	16
7	Newly Developed Vanadium-Based Glasses and Their Potential for Nuclear Radiation Shielding Aims: A Monte Carlo Study on Gamma Ray Attenuation Parameters. Materials, 2021, 14, 3897.	2.9	15
8	Characterization and performance evaluation of Cu-based/TiO2 nano composites. Scientific Reports, 2022, 12, 6669.	3.3	15
9	Fabrication, physical, structure characteristics, neutron and radiation shielding capacityÂof high-density neodymio-cadmium lead-borate glasses: Nd2O3/CdO/PbO/B2O3/Na2O. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	15
10	Electrical conductivity and dielectric relaxation of cerium (IV) oxide. Journal of Materials Science: Materials in Electronics, 2017, 28, 1501-1507.	2.2	14
11	Investigation of thermomagnetic properties in Ca <sub>3</sub> Co <sub>2</sub> O <sub>6</sub> over cryogenic temperature between 0 and 100â€K. Phase Transitions, 2021, 94, 835-841.	1.3	14
12	Linear optical characteristics as well as gamma-ray shielding capabilities of quaternary lithium-zinc borate glasses with Y3+ ions. Optical Materials, 2022, 131, 112673.	3.6	13
13	Bio-based antibacterial packaging from decorated bagasse papers with natural rosin and synthesised GO-Ag nanoparticles. Materials Technology, 2022, 37, 2766-2776.	3.0	12
14	Novel negative capacitance, conductance at high and low frequencies in Au/Polypyrrole –MWCNT composite /TiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> /n-Si structure. Materials Research Express, 2021, 8, 075003.	1.6	11
15	Er3+/Nd3+ ions reinforced lead-borate glasses: an extensive investigation of physical, linear optical characteristics, and photon shielding capacity. Journal of Materials Research and Technology, 2021, 14, 3161-3170.	5.8	11
16	Multivariable analysis for selection of natural fibers as fillers for a sustainable food packaging industry. Materials Research Express, 2021, 8, 095504.	1.6	10
17	Synthesis, physical, ultrasonic waves, mechanical, FTIR, and dielectric characteristics of B2O3/Li2O/ZnO glasses doped with Y3+ ions. Journal of Materials Science: Materials in Electronics, 2022, 33, 6603-6615.	2.2	10
18	Investigation of structural, electrical and optical properties of chitosan/fullerene composites. Materials Research Express, 2019, 6, 125304.	1.6	9

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19	Gamma-ray shielding capacity of different B4C-, Re-, and Ni-based superalloys. European Physical Journal Plus, 2021, 136, 1.	2.6	9
20	ZnO-Bi2O3-B2O3 glasses doped with rare earth oxides: Synthesis, physical, structural characteristics, neutron and photon attenuation attitude. Optik, 2021, 243, 167414.	2.9	9
21	Modified 7-Chloro-11H-indeno[1,2-b]quinoxaline Heterocyclic System for Biological Activities. Catalysts, 2022, 12, 213.	3.5	9
22	Magnetocaloric Effect in α'-MnB Nanoparticles. Russian Journal of Physical Chemistry A, 2022, 96, S101-S104.	0.6	9
23	Bi2O3 reinforced B2O3 + Sb2O3 + Li2O: composition, physical, linear optical characteristics, ar attenuation capacity. Journal of Materials Science: Materials in Electronics, 2021, 32, 12439-12452.	nd photon	8
24	Physical, FTIR, ultrasonic, and dielectric characteristics of calcium lead-borate glasses mixed by Nd2O3/Er2O3 rare earths: experimental study. Journal of Materials Science: Materials in Electronics, 2021, 32, 19966-19979.	2.2	8
25	Room-Temperature Wet Chemical Synthesis of Au NPs/TiH2/Nanocarved Ti Self-Supported Electrocatalysts for Highly Efficient H2 Generation. ACS Applied Materials & Interfaces, 2017, 9, 30115-30126.	8.0	7
26	Fabrication, physical, FTIR, ultrasonic waves, and mechanical properties of quaternary B2O3–Bi2O3–NaF–ZrO2 glasses: Experimental study. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	7
27	Fabrication, physical, mechanical properties, gamma-rays, and neutron shielding abilities of sodium bario-fluoride boro-vanadate glasses: experimental, theoretical, and simulation studies. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	6
28	Development of Natural Blends for Removal of Organic Pollutants. Journal of Computational and Theoretical Nanoscience, 2014, 11, 1891-1898.	0.4	5
29	Development of Al–Mg–Si alloy performance by addition of grain refiner Al–5Ti–1B alloy. Science Progress, 2021, 104, 003685042110294.	1.9	5
30	Fabrication, DFT modeling, and photoelectronic characterizations of novel pyridinylcarbonylquinoline for promising potential energy conversion. Journal of Materials Research and Technology, 2021, 14, 3092-3110.	5.8	5
31	Tuning the optical and magnetic properties of ZnO by Fe <sub>3</sub> O <sub>4</sub> . Physica Scripta, 2022, 97, 075815.	2.5	5
32	Microstructure and physical properties of melt spun Al-17Âwt.% Ni-10Âwt.% Cu alloy. EPJ Applied Physics, 2010, 50, 21301.	0.7	4
33	Microstructure and Microhardness Evolutions of High Fe Containing Near-Eutectic Al-Si Rapidly Solidified Alloy. Journal of Metallurgy, 2014, 2014, 1-8.	1.1	4
34	Enhancing thermal, viscoelastic, and optical properties of biodegradable fullerene(C60)/agarose/chitosan composite films for biotechnology. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	4
35	Synthesis, physical, linear optical and nuclear radiation shielding characteristics of B2O3–BaO–PbO–SrO2 glasses. Journal of Materials Science: Materials in Electronics, 2021, 32, 18163-18177.	2.2	4
36	Radiation shielding, optical, and physical properties of alkali borate glasses modified with Cu2+/Zn2+ ions. Journal of Materials Science: Materials in Electronics, 2021, 32, 19733-19741.	2.2	4

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#	ARTICLE	IF	CITATIONS
37	Investigation of the iron doping on the structural, optical, and magnetic properties of Fe-doped ZnO nanoparticles synthesized by sol–gel method. Journal of Materials Science: Materials in Electronics, 2022, 33, 6368-6379.	2.2	4
38	Microstructure Properties of Rapidly Solidified Al-Zn-Mg-Cu Alloys. Indian Journal of Materials Science, 2014, 2014, 1-6.	0.6	3
39	Tuned high dielectric constant, low dielectric loss tangent with positive and negative values for PPy/MWCNTs/TiO <sub>2</sub> /Al <sub>O<sub>3</sub>/n-Si. Journal of Experimental Nanoscience, 2021, 16, 309-343.</sub>	2.4	3
40	The impact of Nd3+ ions on linear/nonlinear and the ionizing radiation attenuation parameters of TeO2-PbO-Y2O3 glasses. Journal of Materials Science: Materials in Electronics, 2021, 32, 17200-17219.	2.2	3
41	Negative series resistance and photo-response properties of Au/PPY-MWCNTs composite/TiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> /n-Si/Al photodiode. Materials Research Express, 2022, 9, 016301.	1.6	3
42	The influence of rapid solidification on the microstructure properties of Al-10Ni-10Ce alloy. European Physical Journal Plus, 2012, 127, 1.	2.6	1
43	Microstructure and microhardness evolution of melt-spun Al-Si-Cu alloy. European Physical Journal Plus, 2014, 129, 1.	2.6	1
44	Evolution of microstructure and physical properties of lead-free Sn–5Sb-Ag rapidly solidified solder alloys. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	1
45	Fabrication, physical, thermal and optical properties of oxyfluoride glasses doped with rare earth oxides. Journal of Materials Science: Materials in Electronics, 2021, 32, 18951-18967.	2.2	1
46	Synthesis, Structure Investigation, DFT Analysis And Dielectric Characterization of Substituted Pyridinylidenepropanedinitrile (CMHQCPP) Nanostructure: Novel Approach. Journal of Inorganic and Organometallic Polymers and Materials, 0, , 1.	3.7	1
47	Enhanced optical and electrical properties of CeO <sub>2</sub> NPs/chitosan nanocomposites. Materials Research Express, 2022, 9, 055305.	1.6	1
48	CeO2-doped bismosiliconate-borotellurite glasses: linear/nonlinear optical properties as well as photon/neutron attenuation effectiveness. Journal of Materials Science: Materials in Electronics, 2022, 33, 14894-14909.	2.2	1