

# Mohamed Esmat

## List of Publications by Year in descending order

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Version: 2024-02-01

45  
papers

1,341  
citations

393982

19  
h-index

360668

35  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1170  
citing authors

#	ARTICLE	IF	CITATIONS
1	Physico-mechanical and morphological features of zirconia substituted hydroxyapatite nano crystals. <i>Scientific Reports</i> , 2017, 7, 43202.	1.6	135
2	Physico-mechanical properties of Mg and Ag doped hydroxyapatite/chitosan biocomposites. <i>New Journal of Chemistry</i> , 2017, 41, 13773-13783.	1.4	103
3	Nitrogen doping-mediated oxygen vacancies enhancing co-catalyst-free solar photocatalytic H <sub>2</sub> production activity in anatase TiO <sub>2</sub> nanosheet assembly. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119755.	10.8	86
4	Structural, mechanical and thermal features of Bi and Sr co-substituted hydroxyapatite. <i>Journal of Materials Science</i> , 2019, 54, 1977-1991.	1.7	75
5	Effect of preparation conditions on the nanostructure of hydroxyapatite and brushite phases. <i>Applied Nanoscience (Switzerland)</i> , 2016, 6, 991-1000.	1.6	73
6	Alginate-based nanocomposites for efficient removal of heavy metal ions. <i>International Journal of Biological Macromolecules</i> , 2017, 102, 272-283.	3.6	67
7	Nanoarchitecturing bimetallic manganese cobaltite spinels for sonocatalytic degradation of oxytetracycline. <i>Chemical Engineering Journal</i> , 2022, 431, 133851.	6.6	64
8	Synthesis of nanocrystalline MgO/MgAl <sub>2</sub> O <sub>4</sub> spinel powders from industrial wastes. <i>Journal of Alloys and Compounds</i> , 2017, 691, 822-833.	2.8	53
9	In situ Blue titania via band shape engineering for exceptional solar H <sub>2</sub> production in rutile TiO <sub>2</sub> . <i>Applied Catalysis B: Environmental</i> , 2021, 297, 120380.	10.8	53
10	Tuning the mechanical, microstructural, and cell adhesion properties of electrospun $\hat{\mu}$ -polycaprolactone microfibers by doping selenium-containing carbonated hydroxyapatite as a reinforcing agent with magnesium ions. <i>Journal of Materials Science</i> , 2019, 54, 14524-14544.	1.7	51
11	Nanofibrous $\hat{\mu}$ -polycaprolactone scaffolds containing Ag-doped magnetite nanoparticles: Physicochemical characterization and biological testing for wound dressing applications in vitro and in vivo. <i>Bioactive Materials</i> , 2021, 6, 2070-2088.	8.6	50
12	Conversion of a 2D Lepidocrocite-Type Layered Titanate into Its 1D Nanowire Form with Enhancement of Cation Exchange and Photocatalytic Performance. <i>Inorganic Chemistry</i> , 2019, 58, 7989-7996.	1.9	41
13	Drastic improvement in magnetization of CdO nanoparticles by Fe doping. <i>Applied Nanoscience (Switzerland)</i> , 2017, 7, 863-870.	1.6	32
14	MOF-derived nanocrystalline ZnO with controlled orientation and photocatalytic activity. <i>Chemosphere</i> , 2022, 303, 134932.	4.2	32
15	Enhanced antibacterial activity of capped zinc oxide nanoparticles: A step towards the control of clinical bovine mastitis. <i>Veterinary World</i> , 2019, 12, 1225-1232.	0.7	30
16	Enhancement of the physical properties of novel (1 $\hat{\sim}$ x) NiFe <sub>2</sub> O <sub>4</sub> + (x) Al <sub>2</sub> O <sub>3</sub> nanocomposite. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	1.1	27
17	Exceptionally stable green rust, a mixed-valent iron-layered double hydroxide, as an efficient solar photocatalyst for H <sub>2</sub> production from ammonia borane. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119854.	10.8	22
18	Phenyl-Modified Carbon Nitride Quantum Nanoflakes for Ultra-Highly Selective Sensing of Formic Acid: A Combined Experimental by QCM and Density Functional Theory Study. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 48595-48610.	4.0	22

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19	Synthesis and multifunctionality of (CeO <sub>2</sub> -NiO) nanocomposites synthesized via sonochemical technique. <i>Ultrasonics Sonochemistry</i> , 2018, 42, 556-566.	3.8	21
20	Template-oriented synthesis of hydroxyapatite nanoplates for 3D bone printing. <i>Journal of Materials Chemistry B</i> , 2019, 7, 7228-7234.	2.9	21
21	Morphology transformation from titanate nanotubes to TiO <sub>2</sub> microspheres. <i>Materials Science in Semiconductor Processing</i> , 2018, 75, 10-17.	1.9	20
22	Efficient water decontamination using layered double hydroxide beads nanocomposites. <i>Environmental Science and Pollution Research</i> , 2020, 27, 18985-19003.	2.7	19
23	High performing photocatalytic ZnO hollow sub-micro-spheres fabricated by microwave induced self-assembly approach. <i>Ceramics International</i> , 2020, 46, 19815-19821.	2.3	18
24	2D Mesoporous Channels of PMO; a Platform for Cluster-Like Pt Synthesis and Catalytic Activity in Nitrophenol Reduction. <i>Catalysts</i> , 2020, 10, 167.	1.6	17
25	Effective Pb <sup>2+</sup> removal from water using nanozerovalent iron stored 10 months. <i>Applied Nanoscience (Switzerland)</i> , 2017, 7, 407-416.	1.6	16
26	Enhancement of Mn-doped magnetite by mesoporous silica for technological application. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	1.1	16
27	Energy management in hybrid organic-silicon nanostructured solar cells by downshifting using CdZnS/ZnS and CdZnSe/ZnS quantum dots. <i>Nano Energy</i> , 2021, 89, 106470.	8.2	16
28	Fluorescence and Spectroscopic Characterization of Multiferroic Quantum Dots of La:BiFeO <sub>3</sub> . <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 2417-2424.	0.8	15
29	Role of A Cation Vacancy in the Exchange-Biased LaFeO <sub>3</sub> Multiferroic Nanocrystals. <i>Journal of Superconductivity and Novel Magnetism</i> , 2018, 31, 1867-1879.	0.8	15
30	Influence of ZnO nanoparticle ratio and size on mechanical properties and whiteness of White Portland Cement. <i>Applied Nanoscience (Switzerland)</i> , 2020, 10, 3603-3615.	1.6	15
31	Structural Conversion of Cu-Titanate into Photoactive Plasmonic Cu-TiO <sub>2</sub> for H <sub>2</sub> Generation in Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 4143-4151.	3.2	13
32	The effective role of diamagnetic Pb ions in tailoring the magnetic and dielectric properties of BiFeO <sub>3</sub> nanomultiferroic. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 3621-3637.	1.1	12
33	Polyaniline grafted mesoporous zinc sulfide nanoparticles for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 6067-6077.	3.8	11
34	Synergistic Effect of High-Performance N-TiO <sub>2</sub> /N-RGO Nanocomposites for Photoelectrochemical Water Oxidation. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 031002.	0.9	10
35	Acceleration of ammonium phosphate hydrolysis using TiO <sub>2</sub> microspheres as a catalyst for hydrogen production. <i>Nanoscale Advances</i> , 2020, 2, 2080-2086.	2.2	10
36	Correlation between morphology and magnetic properties in Zr doped BiFeO <sub>3</sub> nanoparticles. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3004-3012.	1.1	9

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37	Influence of vacancy co-doping on the physical features of NdFeO <sub>3</sub> nanostructure perovskites. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	9
38	Ecofriendly sustainable synthesized nano-composite for removal of heavy metals from aquatic environment. Applied Nanoscience (Switzerland), 2022, 12, 1585-1600.	1.6	9
39	Smart nanocarrier-based chitosan @silica coated carbon nanotubes composite for breast cancer treatment approach. International Journal of Polymeric Materials and Polymeric Biomaterials, 2022, 71, 910-922.	1.8	8
40	Room Temperature Exchange Bias in Multifunctional Sb <sub>2</sub> FeO <sub>6</sub> Multiferroic. Journal of Superconductivity and Novel Magnetism, 2017, 30, 1221-1229.	0.8	7
41	First-Principles Study of the Geometric and Electronic Structures and Optical Properties of Vacancy Magnesium Ferrite. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 5432-5443.	1.1	7
42	Laser induced adjustment of the conductivity of rare earth doped Mn-Zn nanoferrite. Materials Science-Poland, 2017, 35, 519-527.	0.4	4
43	Innovative biotemplates for the synthesis of ZnO nanoparticles with versatile morphologies. Journal of Sol-Gel Science and Technology, 2021, 99, 326-338.	1.1	4
44	Immobilization of Iron Minerals on a Layered Silicate for Enhancing its Solar Photocatalytic Activity toward H <sub>2</sub> Production. Frontiers in Energy Research, 2021, 9, .	1.2	2
45	Resistivity and magnetization bimodal improvement in Ni ferrite nanoparticles by Mg substitution. Journal of the Australian Ceramic Society, 2021, 57, 719.	1.1	1