

Mohamed Esmat

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7882164/publications.pdf>

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	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
2	Nanoarchitecturing bimetallic manganese cobaltite spinels for sonocatalytic degradation of oxytetracycline. Chemical Engineering Journal, 2022, 431, 133851.	6.6	64
3	Polyaniline grafted mesoporous zinc sulfide nanoparticles for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2022, 47, 6067-6077.	3.8	11
4	Ecofriendly sustainable synthesized nano-composite for removal of heavy metals from aquatic environment. Applied Nanoscience (Switzerland), 2022, 12, 1585-1600.	1.6	9
5	Structural Conversion of Cu-Titanate into Photoactive Plasmonic Cu-TiO ₂ for H ₂ Generation in Visible Light. ACS Sustainable Chemistry and Engineering, 2022, 10, 4143-4151.	3.2	13
6	MOF-derived nanocrystalline ZnO with controlled orientation and photocatalytic activity. Chemosphere, 2022, 303, 134932.	4.2	32
7	Nitrogen doping-mediated oxygen vacancies enhancing co-catalyst-free solar photocatalytic H ₂ production activity in anatase TiO ₂ nanosheet assembly. Applied Catalysis B: Environmental, 2021, 285, 119755.	10.8	86
8	The effective role of diamagnetic Pb ions in tailoring the magnetic and dielectric properties of BiFeO ₃ nanomultiferroic. Journal of Materials Science: Materials in Electronics, 2021, 32, 3621-3637.	1.1	12
9	Resistivity and magnetization bimodal improvement in Ni ferrite nanoparticles by Mg substitution. Journal of the Australian Ceramic Society, 2021, 57, 719.	1.1	1
10	Immobilization of Iron Minerals on a Layered Silicate for Enhancing its Solar Photocatalytic Activity toward H ₂ Production. Frontiers in Energy Research, 2021, 9, .	1.2	2
11	Exceptionally stable green rust, a mixed-valent iron-layered double hydroxide, as an efficient solar photocatalyst for H ₂ production from ammonia borane. Applied Catalysis B: Environmental, 2021, 286, 119854.	10.8	22
12	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
13	Nanofibrous $\hat{\mu}$ -polycaprolactone scaffolds containing Ag-doped magnetite nanoparticles: Physicochemical characterization and biological testing for wound dressing applications in vitro and in vivo. Bioactive Materials, 2021, 6, 2070-2088.	8.6	50
14	Energy management in hybrid organic-silicon nanostructured solar cells by downshifting using CdZnS/ZnS and CdZnSe/ZnS quantum dots. Nano Energy, 2021, 89, 106470.	8.2	16
15	In situ Blue titania via band shape engineering for exceptional solar H ₂ production in rutile TiO ₂ . Applied Catalysis B: Environmental, 2021, 297, 120380.	10.8	53
16	Phenyl-Modified Carbon Nitride Quantum Nanoflakes for Ultra-Highly Selective Sensing of Formic Acid: A Combined Experimental by QCM and Density Functional Theory Study. ACS Applied Materials & Interfaces, 2021, 13, 48595-48610.	4.0	22
17	Efficient water decontamination using layered double hydroxide beads nanocomposites. Environmental Science and Pollution Research, 2020, 27, 18985-19003.	2.7	19
18	Influence of vacancy co-doping on the physical features of NdFeO ₃ nanostructure perovskites. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	9

#	ARTICLE	IF	CITATIONS
19	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
20	Enhancement of Mn-doped magnetite by mesoporous silica for technological application. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	16
21	High performing photocatalytic ZnO hollow sub-micro-spheres fabricated by microwave induced self-assembly approach. Ceramics International, 2020, 46, 19815-19821.	2.3	18
22	Synergistic Effect of High-Performance N,Sâ€“TiO ₂ /N,Sâ€“RGO Nanocomposites for Photoelectrochemical Water Oxidation. ECS Journal of Solid State Science and Technology, 2020, 9, 031002.	0.9	10
23	2D Mesoporous Channels of PMO; a Platform for Cluster-Like Pt Synthesis and Catalytic Activity in Nitrophenol Reduction. Catalysts, 2020, 10, 167.	1.6	17
24	Acceleration of ammonium phosphate hydrolysis using TiO ₂ microspheres as a catalyst for hydrogen production. Nanoscale Advances, 2020, 2, 2080-2086.	2.2	10
25	Influence of ZnO nanoparticle ratio and size on mechanical properties and whiteness of White Portland Cement. Applied Nanoscience (Switzerland), 2020, 10, 3603-3615.	1.6	15
26	Tuning the mechanical, microstructural, and cell adhesion properties of electrospun Îµ-polycaprolactone microfibers by doping selenium-containing carbonated hydroxyapatite as a reinforcing agent with magnesium ions. Journal of Materials Science, 2019, 54, 14524-14544.	1.7	51
27	Conversion of a 2D Lepidocrocite-Type Layered Titanate into Its 1D Nanowire Form with Enhancement of Cation Exchange and Photocatalytic Performance. Inorganic Chemistry, 2019, 58, 7989-7996.	1.9	41
28	Template-oriented synthesis of hydroxyapatite nanoplates for 3D bone printing. Journal of Materials Chemistry B, 2019, 7, 7228-7234.	2.9	21
29	Correlation between morphology and magnetic properties in Zr doped BiFeO ₃ nanoparticles. Journal of Materials Science: Materials in Electronics, 2019, 30, 3004-3012.	1.1	9
30	Structural, mechanical and thermal features of Bi and Sr co-substituted hydroxyapatite. Journal of Materials Science, 2019, 54, 1977-1991.	1.7	75
31	Enhanced antibacterial activity of capped zinc oxide nanoparticles: A step towards the control of clinical bovine mastitis. Veterinary World, 2019, 12, 1225-1232.	0.7	30
32	Synthesis and multifunctionality of (CeO ₂ -NiO) nanocomposites synthesized via sonochemical technique. Ultrasonics Sonochemistry, 2018, 42, 556-566.	3.8	21
33	Role of A Cation Vacancy in the Exchange-Biased LaFeO ₃ Multiferroic Nanocrystals. Journal of Superconductivity and Novel Magnetism, 2018, 31, 1867-1879.	0.8	15
34	Morphology transformation from titanate nanotubes to TiO ₂ microspheres. Materials Science in Semiconductor Processing, 2018, 75, 10-17.	1.9	20
35	Physico-mechanical and morphological features of zirconia substituted hydroxyapatite nano crystals. Scientific Reports, 2017, 7, 43202.	1.6	135
36	Enhancement of the physical properties of novel (1â”x) NiFe ₂ O ₄ + (x) Al ₂ O ₃ nanocomposite. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	27

#	ARTICLE	IF	CITATIONS
37	Alginate-based nanocomposites for efficient removal of heavy metal ions. International Journal of Biological Macromolecules, 2017, 102, 272-283.	3.6	67
38	Effective Pb ²⁺ removal from water using nanozerovalent iron stored 10 months. Applied Nanoscience (Switzerland), 2017, 7, 407-416.	1.6	16
39	Physico-mechanical properties of Mg and Ag doped hydroxyapatite/chitosan biocomposites. New Journal of Chemistry, 2017, 41, 13773-13783.	1.4	103
40	Drastic improvement in magnetization of CdO nanoparticles by Fe doping. Applied Nanoscience (Switzerland), 2017, 7, 863-870.	1.6	32
41	Room Temperature Exchange Bias in Multifunctional Sb ₂ FeO ₆ Multiferroic. Journal of Superconductivity and Novel Magnetism, 2017, 30, 1221-1229.	0.8	7
42	Synthesis of nanocrystalline MgO/MgAl ₂ O ₄ spinel powders from industrial wastes. Journal of Alloys and Compounds, 2017, 691, 822-833.	2.8	53
43	Laser induced adjustment of the conductivity of rare earth doped Mn-Zn nanoferrite. Materials Science-Poland, 2017, 35, 519-527.	0.4	4
44	Effect of preparation conditions on the nanostructure of hydroxyapatite and brushite phases. Applied Nanoscience (Switzerland), 2016, 6, 991-1000.	1.6	73
45	Fluorescence and Spectroscopic Characterization of Multiferroic Quantum Dots of La:BiFeO ₃ . Journal of Superconductivity and Novel Magnetism, 2015, 28, 2417-2424.	0.8	15