Amany M El-Nahrawy

List of Publications by Year
in descending order

71 papers	1,530 citations	279798 23 h-index	395702 33 g-index
72 all docs	72 docs citations	72 times ranked	816 citing authors

#	Article	IF	Citations
1	Sol-gel synthesis and characterizations of hybrid chitosan-PEG/calcium silicate nanocomposite modified with ZnO-NPs and (E102) for optical and antibacterial applications. International Journal of Biological Macromolecules, 2017, 97, 561-567.	7.5	84
2	Green solâ€“gel synthesis of novel nanoporous copper aluminosilicate for the eradication of pathogenic microbes in drinking water and wastewater treatment. Environmental Science and Pollution Research, 2019, 26, 9508-9523.	5.3	76
3	Influences of Ag-NPs doping chitosan/calcium silicate nanocomposites for optical and antibacterial activity. International Journal of Biological Macromolecules, 2016, 93, 267-275.	7.5	70
4	Thermal, dielectric and antimicrobial properties of polystyrene-assisted/ITO:Cu nanocomposites. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	55
5	Development of electrically conductive nanocomposites from cellulose nanowhiskers, polypyrrole and silver nanoparticles assisted with Nickel(III) oxide nanoparticles. Reactive and Functional Polymers, 2020, 149, 104533.	4.1	51
6	Identification of dielectric and magnetic properties of core shell ZnTiO3/CoFe2O4 nanocomposites. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	43
7	Optical, Functional Impact and Antimicrobial of Chitosan/Phosphosilicate/Al2O3 Nanosheets. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 3084-3094.	3.7	41
8	Facile synthesis and potential application of Ni0.6Zn0.4Fe2O4 and Ni0.6Zn0.2Ce0.2Fe2O4 magnetic nanocubes as a new strategy in sewage treatment. Journal of Environmental Management, 2020, 270, 110816.	7.8	39
9	Conducting cellulose/TiO 2 composites by in situ polymerization of pyrrole. Carbohydrate Polymers, 2017, 168, 182-190.	10.2	38
10	Identification of Fe3+ co-doped zinc titanate mesostructures using dielectric and antimicrobial activities. International Journal of Environmental Science and Technology, 2020, 17, 4481-4494.	3.5	38
11	Solâ€“gel synthesis and physical characterization of high impact polystyrene nanocomposites based on Fe2O3 doped with ZnO. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	38
12	Impact of Mn-substitution on structural, optical, and magnetic properties evolution of sodiumâ€“cobalt ferrite for opto-magnetic applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 6224-6232.	2.2	38
13	Microstructure and Antimicrobial Properties of Bioactive Cobalt Co-Doped Copper Aluminosilicate Nanocrystallines. Silicon, 2020, 12, 2317-2327.	3.3	36
14	Influence of NiO on structural, optical, and magnetic properties of Al2O3â€“P2O5â€“Na2O magnetic porous nanocomposites nucleated by SiO2. Solid State Sciences, 2020, 108, 106454.	3.2	36
15	Sol gel synthesis of hybrid chitosan/calcium aluminosilicate nanocomposite membranes and its application as support for CO2 sensor. International Journal of Biological Macromolecules, 2019, 125, 503-509.	7.5	33
16	Effect of Cu incorporation on morphology and optical band gap properties of nano-porous lithium magneso-silicate (LMS) thin films. Materials Research Express, 2019, 6, 016404.	1.6	32
17	Detection of 3,4-diaminotoluene based on Sr_{0.3}Pb_{0.7}TiO₃/CoFe₂O₄ core/shell nanocomposite via an electrochemical approach. New Journal of Chemistry, 2020, 44, 7941-7953.	2.8	32
18	Solâ€“gel synthesis and physical characterization of novel MgCrO4-MgCu2O3 layered films and MgCrO4-MgCu2O3/p-Si based photodiode. Nano Structures Nano Objects, 2021, 25, 100646.	3.5	29

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19	Integrated use of nickel cobalt aluminoferrite/Ni2+ nano-crystallites supported with SiO2 for optomagnetic and biomedical applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 274, 115491.	3.5	28
20	Compositional Effects and Optical Properties of P2O5 Doped Magnesium Silicate Mesoporous Thin Films. Arabian Journal for Science and Engineering, 2021, 46, 5893-5906.	3.0	27
21	Structural investigation and optical properties of Fe, Al, Si, and Cuâ€“ZnTiO₃ nanocrystals. Physica Scripta, 2021, 96, 115801.	2.5	27
22	Ni²⁺doping effect on potassium barium titanate nanoparticles: enhancement optical and dielectric properties. Physica Scripta, 2021, 96, 125821.	2.5	27
23	Structural and thermal properties of monolithic silicaâ€“phosphate (SiO2â€“P2O5) gel glasses prepared by solâ€“gel technique. Journal of Sol-Gel Science and Technology, 2011, 58, 507-517.	2.4	25
24	High performance of talented copper/magneso-zinc titanate nanostructures as biocidal agents for inactivation of pathogens during wastewater disinfection. Applied Nanoscience (Switzerland), 2020, 10, 3585-3601.	3.1	25
25	Exploring the ferroelectric effect of nanocrystalline strontium zinc titanate/Cu: Raman and antimicrobial activity. Journal of Materials Science: Materials in Electronics, 2020, 31, 7850-7861.	2.2	25
26	Synthesis, structural analysis, electrochemical and antimicrobial activities of copper magnesium zirconosilicate (Cu20Mg10Si40Zr(30-x)O:(xÂ=Â0,5,7,10) Ni2+) nanocrystals. Microchemical Journal, 2021, 163, 105881.	4.5	25
27	Synthesis of hybrid chitosan/calcium aluminosilicate using a sol-gel method for optical applications. Journal of Alloys and Compounds, 2016, 676, 432-439.	5.5	23
28	Uniformly Embedded Cellulose/Polypyrrole-TiO2 Composite in Sol-Gel Sodium Silicate Nanoparticles: Structural and Dielectric Properties. Silicon, 2019, 11, 1063-1070.	3.3	23
29	Decontamination of ubiquitous harmful microbial lineages in water using an innovative Zn2Ti0.8Fe0.2O4 nanostructure: dielectric and terahertz properties. Heliyon, 2019, 5, e02501.	3.2	23
30	Impact of ZnO on the spectroscopic, mechanical, and UPF properties of Fe2O3-tough polystyrene-based nanocomposites. Journal of Materials Science: Materials in Electronics, 2021, 32, 28019-28031.	2.2	23
31	Structural and Opto-Magnetic Properties of Nickel Magnesium Copper Zircon Silicate Nano-Composite for Suppress the Spread of Foodborne Pathogenic bacteria. Silicon, 2022, 14, 6645-6660.	3.3	23
32	Preparation and Characterization of Transparent Semiconducting Silica Nanocomposites Doped with P2O5 and Al2O3. Silicon, 2021, 13, 3733-3739.	3.3	22
33	Modern Template Design and Biological Evaluation of Cephradine-loaded Magnesium Calcium Silicate Nanocomposites as an Inhibitor for Nosocomial Bacteria in Biomedical Applications. Silicon, 2021, 13, 2979-2991.	3.3	21
34	Silica Zinc Titanate Wide Bandgap Semiconductor Nanocrystallites: Synthesis and Characterization. Silicon, 2022, 14, 11715-11729.	3.3	21
35	Sol-Gel Preparation and Spectroscopic Properties of Modified Sodium Silicate /Tartrazine Dye Nanocomposite. Silicon, 2018, 10, 2117-2122.	3.3	20
36	Talented Bi0.5Na0.25K0.25TiO3/oxidized cellulose films for optoelectronic and bioburden of pathogenic microbes. Carbohydrate Polymers, 2022, 291, 119656.	10.2	20

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37	Cyanoethyl Cellulose/BaTiO₃/GO Flexible Films with Electroconductive Properties. ECS Journal of Solid State Science and Technology, 2021, 10, 083004.	1.8	19
38	A new organic-silica based nanocomposite prepared for spectrophotometric determination of uranyl ions. RSC Advances, 2016, 6, 9563-9570.	3.6	18
39	Ecofriendly synthesis and characterization of Ni2+ codoped silica magnesium zirconium copper nanoceramics for wastewater treatment applications. Scientific Reports, 2022, 12, .	3.3	17
40	Spectroscopic and Antimicrobial Activity of Hybrid Chitosan/Silica Membranes doped with Al2O3 Nanoparticles. Silicon, 2019, 11, 1677-1685.	3.3	16
41	Copper Lithium Silicate/ZrO2 Nanoparticles-Coated Kevlar for Improving UV-Vis Absorbance/ Protection Properties. Silicon, 2020, 12, 1743-1750.	3.3	16
42	Enoxaparin-immobilized poly(Îµ-caprolactone)- based nanogels for sustained drug delivery systems. Pure and Applied Chemistry, 2014, 86, 691-700.	1.9	14
43	Adjustment of morphological and dielectric properties of ZnTiO3 nanocrystalline using Al2O3 nanoparticles. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	14
44	Spectroscopic Study of Eu3+-Doped Magnesium Lanthanum Phosphate (MLPO) Films on SiO2 Substrate. Silicon, 2022, 14, 1227-1234.	3.3	14
45	Influence of Al, Fe, and Cu on the microstructure, diffused reflectance, THz, and dielectric properties for ZnTiO<SUB align="right">3 nanocrystalline. International Journal of Materials Engineering Innovation, 2021, 12, 115.	0.5	13
46	Morphological, impedance and terahertz properties of zinc titanate/Fe<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e204" altimg="si1.svg"><mml:msup><mml:mrow /><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math> nanocrystalline for suppression of Pseudomonas aeruginosa biofilm. Nano Structures Nano Objects, 2021, 26, 100715.	3.5	13
47	Therapeutic activity of sour orange albedo extract and abundant flavanones loaded silica nanoparticles against acrylamide-induced hepatotoxicity. Toxicology Reports, 2018, 5, 929-942.	3.3	11
48	Electroconductive Composites Containing Nanocellulose, Nanopolypyrrole, and Silver Nanoparticles. Journal of Renewable Materials, 2019, 7, 193-203.	2.2	11
49	Probing the Structural and Antimicrobial Study on a Solâ€“Gel Derived Velosef-Loaded Bioactive Calcium Magneso-Silicate Xerogel. Silicon, 2021, 13, 623-631.	3.3	10
50	Terahertz and UVâ€“VIS Spectroscopy Evaluation of Copper Doped Zinc Magnesium Titanate Nanoceramics Prepared via Sol-Gel Method. ECS Journal of Solid State Science and Technology, 2021, 10, 063007.	1.8	10
51	Annealing study of electrodeposited CuInSe2 and CuInS2 thin films. Optical and Quantum Electronics, 2018, 50, 1.	3.3	9
52	Eu2O3 role in the optical and photoluminescence properties of $$50{ext{ SiO}}_{2} - 7{ext{ MgO}} - { }20{ext{ ZnO}} - { }left({23 - x} ight){ext{ La}}_{2} {ext{O}}_{3} - x{ext{ Eu}}_{2} {ext{O}}_{3}$$ nano-crystalline thin films. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	2.3	9
53	Sol-gel preparation and in vitro cytotoxic activity of nanohybrid structures based on multi-walled carbon nanotubes and silicate. Inorganic and Nano-Metal Chemistry, 2017, 47, 1023-1027.	1.6	8
54	Green Synthesized Î±-MnO2 As a Photocatalytic Reagent for Methylene Blue and Congo Red Degradation. Journal of Electronic Materials, 2021, 50, 2171-2181.	2.2	8

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55	Effect of Calcination Temperature on the Optical and Magnetic Properties of NiFe₂O₄- KFeO₂ Nanocomposite Films Synthesized via WOSW Sol-Gel Route for Opto-Magnetic Applications. ECS Journal of Solid State Science and Technology, 2021, 10, 103016.	1.8	8
56	Spectroscopic and magnetic properties of Co0.15Al0.25-xNi0.6+xFe2O4nanocomposites aided by silica for prohibiting pathogenic bacteria during sewage handling. Environmental Nanotechnology, Monitoring and Management, 2022, 18, 100672.	2.9	8
57	Effect of Cu co-doping on the microstructure and optical properties of alumino-zinc thin films for optoelectronic applications. International Journal of Materials Engineering Innovation, 2021, 12, 18.	0.5	7
58	Structural and optical properties of wet-chemistry Cu co-doped ZnTiO3 thin films deposited by spin coating method. Egyptian Journal of Chemistry, 2018, .	0.2	7
59	Impact of Cu concentration on the properties of sol-gel spin-coated Cu-ZnZrSnO thin films: evaluation of Ag/Cu-ZrZnSn/p-Si/Al Schottky diodes. Silicon, 2022, 14, 10837-10847.	3.3	5
60	Expansion of Nanosized MgSiO₃/Chitosan Nanocomposite Structural and Spectroscopic for Loading Velosef by Nanomaterial Intervention. ECS Journal of Solid State Science and Technology, 2021, 10, 121003.	1.8	5
61	Polyacetal/graphene/polypyrrole and cobalt nanoparticles electroconducting composites. International Journal of Industrial Chemistry, 2020, 11, 223-234.	3.1	4
62	Sol-gel preparation of bioactive nanoporous (Al<SUB align="right">2O<SUB align="right">3: CuO:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Journal of Materials Engineering Innovation, 2021, 12, 37.	0.5	4
63	Crystallographic and Magnetic Properties of Al3+co-doped NiZnFe2O4 Nano- particles Prepared by Sol-gel Process. Egyptian Journal of Chemistry, 2018, .	0.2	4
64	Ultrasonic Spray Pyrolysisâ€assisted Fabrication of Ultrathin CuWO 4 Films with Improved Photoelectrochemical Performance. ChemNanoMat, 0, , .	2.8	3
65	Development of 4-aminophenol sensor probe based on Co(0.8-x)ZrxNa0.2Fe2O4 nanocomposites for monitoring environmental toxins. Emergent Materials, 2022, 5, 431-443.	5.7	2
66	Industrial Perspective of Microbial Application of Nanoparticles Synthesis. , 2021, , 155-190.		0
67	Influence of Al, Fe, and Cu on the microstructure, diffused reflectance, THz, and dielectric properties for ZnTiO<SUB align="right">3 nanocrystalline. International Journal of Materials Engineering Innovation, 2021, 12, 115.	0.5	0
68	Effect of Cu co-doping on the microstructure and optical properties of alumino-zinc thin films for optoelectronic applications. International Journal of Materials Engineering Innovation, 2021, 12, 18.	0.5	0
69	The Spectroscopic and Antimicrobial Yield of Sol-Gel Derived Zinc Copper Silicate/E102 Nanoclusters. ECS Journal of Solid State Science and Technology, 2022, 11, 013003.	1.8	0
70	Magnetic states in Fe-doped Bi<SUB align="right">2Se<SUB align="right">3 topological insulators nano-crystallites. International Journal of Materials Engineering Innovation, 2021, 12, 325.	0.5	0
71	Magnetic Topological Insulators Nano-Crystallites Fe1.4Bi0.6Se2.5Y0.5Prx: Preparation, Characterization and Physical Properties. ECS Journal of Solid State Science and Technology, 0, , .	1.8	0