

# G Suresh Kumar

## List of Publications by Year in descending order

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65  
papers

1,484  
citations

331642

21  
h-index

345203

36  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1432  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis, characterization and in vitro studies of zinc and carbonate co-substituted nano-hydroxyapatite for biomedical applications. <i>Materials Chemistry and Physics</i> , 2012, 134, 1127-1135.	4.0	115
2	Microwave conversion of eggshells into flower-like hydroxyapatite nanostructure for biomedical applications. <i>Materials Letters</i> , 2012, 76, 198-200.	2.6	109
3	Synthesis and characterization of bioactive hydroxyapatite/calcite nanocomposite for biomedical applications. <i>Journal of Colloid and Interface Science</i> , 2010, 349, 56-62.	9.4	87
4	Biomimetic facile synthesis of zinc oxide and copper oxide nanoparticles from <i>Elaeagnus indica</i> for enhanced photocatalytic activity. <i>Environmental Research</i> , 2022, 212, 113323.	7.5	80
5	Flower-like hydroxyapatite nanostructure obtained from eggshell: A candidate for biomedical applications. <i>Ceramics International</i> , 2013, 39, 8293-8299.	4.8	68
6	In situ synthesis, characterization and in vitro studies of ciprofloxacin loaded hydroxyapatite nanoparticles for the treatment of osteomyelitis. <i>Journal of Materials Chemistry B</i> , 2014, 2, 5052-5060.	5.8	62
7	One step method to synthesize flower-like hydroxyapatite architecture using mussel shell bio-waste as a calcium source. <i>Ceramics International</i> , 2017, 43, 3457-3461.	4.8	60
8	Green synthesis and antibacterial activity of hydroxyapatite nanorods for orthopedic applications. <i>MRS Communications</i> , 2017, 7, 183-188.	1.8	55
9	Size and morphology-controlled synthesis of mesoporous hydroxyapatite nanocrystals by microwave-assisted hydrothermal method. <i>Ceramics International</i> , 2018, 44, 11257-11264.	4.8	54
10	<i>Hydrangea paniculata</i> flower extract-mediated green synthesis of MgNPs and AgNPs for health care applications. <i>Powder Technology</i> , 2017, 305, 488-494.	4.2	44
11	Microwave-assisted hydrothermal synthesis of mesoporous carbonated hydroxyapatite with tunable nanoscale characteristics for biomedical applications. <i>Ceramics International</i> , 2019, 45, 970-977.	4.8	42
12	Utilization of snail shells to synthesise hydroxyapatite nanorods for orthopedic applications. <i>RSC Advances</i> , 2015, 5, 39544-39548.	3.6	40
13	Ascorbic Acid-Assisted Microwave Synthesis of Mesoporous Ag-Doped Hydroxyapatite Nanorods from Biowaste Seashells for Implant Applications. <i>ACS Applied Bio Materials</i> , 2019, 2, 2280-2293.	4.6	40
14	Investigations on nickel ferrite embedded calcium phosphate nanoparticles for biomedical applications. <i>Journal of Alloys and Compounds</i> , 2017, 695, 3211-3219.	5.5	35
15	Microwave assisted combustion synthesis and characterization of nickel ferrite nanoplatelets. <i>Modern Electronic Materials</i> , 2016, 2, 74-78.	0.6	31
16	Structural, optical and photocatalytic properties of zinc oxide nanoparticles obtained by simple plant extract mediated synthesis. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 1927-1935.	2.2	29
17	Fabrication of a Novel Biocompatible Magnetic Biomaterial with Hyperthermia Potential. <i>Journal of the American Ceramic Society</i> , 2014, 97, 1115-1122.	3.8	28
18	Morphology and size controlled synthesis of zinc oxide nanostructures and their optical properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 9339-9346.	2.2	25

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19	Mesoporous Mg-doped hydroxyapatite nanorods prepared from bio-waste blue mussel shells for implant applications. <i>Ceramics International</i> , 2020, 46, 28514-28527.	4.8	23
20	Ecofriendly green synthesis of ZnO nanostructures using <i>Artabotrys Hexapetalu</i> and <i>Bambusa Vulgaris</i> plant extract and investigation on their photocatalytic and antibacterial activity. <i>Materials Research Express</i> , 2019, 6, 105098.	1.6	22
21	Hydrothermal synthesis of CuO/g-C <sub>3</sub> N <sub>4</sub> nanosheets for visible-light driven photodegradation of methylene blue. <i>Diamond and Related Materials</i> , 2022, 121, 108735.	3.9	22
22	Role of material processing on the thermal stability and sinterability of nanocrystalline hydroxyapatite. <i>Powder Technology</i> , 2012, 225, 190-195.	4.2	20
23	Polymer coated phosphate glass/hydroxyapatite composite scaffolds for bone tissue engineering applications. <i>RSC Advances</i> , 2015, 5, 60188-60198.	3.6	20
24	Microwave assisted synthesis and characterizations of near infrared emitting Yb/Er doped fluorapatite nanoparticles. <i>Journal of Alloys and Compounds</i> , 2016, 689, 525-532.	5.5	20
25	Hylotelephium telephium Flower Extract-Mediated Biosynthesis of CuO and ZnO Nanoparticles with Promising Antioxidant and Antibacterial Properties for Healthcare Applications. <i>Jom</i> , 2020, 72, 1264-1272.	1.9	20
26	Hydrothermal assisted phytofabrication of zinc oxide nanoparticles with different nanoscale characteristics for the photocatalytic degradation of Rhodamine B. <i>Optik</i> , 2020, 202, 163607.	2.9	19
27	Curcuma longa tuber extract mediated synthesis of hydroxyapatite nanorods using biowaste as a calcium source for the treatment of bone infections. <i>Journal of Sol-Gel Science and Technology</i> , 2018, 86, 610-616.	2.4	18
28	Sodium dodecyl sulfate mediated microwave synthesis of biocompatible superparamagnetic mesoporous hydroxyapatite nanoparticles using black <i>Chlamys varia</i> seashell as a calcium source for biomedical applications. <i>Ceramics International</i> , 2019, 45, 15143-15155.	4.8	18
29	Repurposing of antidepressant drug sertraline for antimicrobial activity against <i>Staphylococcus aureus</i> : a potential approach for the treatment of osteomyelitis. <i>New Journal of Chemistry</i> , 2019, 43, 5315-5324.	2.8	17
30	Optimization of a lab scale and pilot scale conversion of eggshell biowaste into hydroxyapatite using microwave reactor. <i>Ceramics International</i> , 2020, 46, 25024-25034.	4.8	14
31	Investigation on photocatalytic activity of g-C <sub>3</sub> N <sub>4</sub> decorated $\text{Fe}_2\text{O}_3$ nanostructure synthesized by hydrothermal method for the visible-light assisted degradation of organic pollutant. <i>Diamond and Related Materials</i> , 2022, 125, 109021.	3.9	14
32	Microwave combustion synthesis of tin oxide-decorated silica nanostructure using rice husk template for supercapacitor applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 5738-5745.	2.2	13
33	Rare-earth ions integrated silica nanoparticles derived from rice husk via microwave-assisted combustion method for bioimaging applications. <i>Ceramics International</i> , 2020, 46, 18366-18372.	4.8	13
34	Bio-synthesis of photocatalytic $\text{Fe}_2\text{O}_3$ nanoparticles using <i>Leucas aspera</i> and <i>Jatropha podagrica</i> leaf extract for an effective removal of textile dye pollutants. <i>Optik</i> , 2022, 249, 168275.	2.9	13
35	White LED active $\text{Fe}_2\text{O}_3/\text{rGO}$ photocatalytic nanocomposite for an effective degradation of tetracycline and ibuprofen molecules. <i>Environmental Research</i> , 2022, 212, 113301.	7.5	13
36	Microwave-assisted synthesis of superparamagnetic mesoporous Co-doped hydroxyapatite nanorods for various biomedical applications. <i>Ceramics International</i> , 2021, 47, 8642-8652.	4.8	12

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37	Rapid synthesis of eggshell derived hydroxyapatite with nanoscale characteristics for biomedical applications. <i>Ceramics International</i> , 2022, 48, 1326-1339.	4.8	12
38	Mesoporous Mn-doped hydroxyapatite nanorods obtained via pyridinium chloride enabled microwave-assisted synthesis by utilizing <i>Donax variabilis</i> seashells for implant applications. <i>Materials Science and Engineering C</i> , 2021, 126, 112170.	7.3	11
39	Surfactant-assisted microwave synthesis of luminescent/magnetic bifunctional hydroxyapatite nanorods for dual-modal imaging. <i>Optik</i> , 2021, 225, 165564.	2.9	10
40	Citric Acid-Mediated Microwave-Hydrothermal Synthesis of Mesoporous F-Doped HAp Nanorods from Bio-Waste for Biocidal Implant Applications. <i>Nanomaterials</i> , 2022, 12, 315.	4.1	10
41	Photoelectrochemical properties and photocatalytic degradation of methyl orange dye by different ZnO nanostructures. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 9732-9742.	2.2	10
42	Rice Husk-Derived Mesoporous Silica Nanostructure for Supercapacitors Application: a Possible Approach for Recycling Bio-Waste into a Value-Added Product. <i>Silicon</i> , 2022, 14, 10129-10135.	3.3	10
43	Eggshell derived mesoporous biphasic calcium phosphate for biomedical applications using rapid thermal processing. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1932-1943.	2.1	9
44	Amorphous silica nanoparticles derived from biowaste via microwave combustion for drug delivery. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 583-589.	2.1	9
45	Biocompatible Luminomagnetic Hydroxyapatite Nanoparticles for Dual Model Bioimaging. <i>Journal of Bionanoscience</i> , 2016, 10, 267-274.	0.4	8
46	A novel rhombohedron-like nickel ferrite nanostructure: Microwave combustion synthesis, structural characterization and magnetic properties. <i>Journal of Science: Advanced Materials and Devices</i> , 2016, 1, 282-285.	3.1	8
47	Comparative study of hydroxyapatite prepared from eggshells and synthetic precursors by microwave irradiation method for medical applications. <i>Materials Today: Proceedings</i> , 2019, 15, 344-352.	1.8	8
48	Development of Fe <sub>3</sub> O <sub>4</sub> integrated polymer/phosphate glass composite scaffolds for bone tissue engineering. <i>Materials Advances</i> , 2020, 1, 3466-3475.	5.4	8
49	Synthesis of Fe <sub>3</sub> O <sub>4</sub> -decorated SiO <sub>2</sub> nanostructure using rice husk as a source by microwave combustion for the development of a magnetically recoverable adsorbent. <i>Ceramics International</i> , 2022, 48, 10339-10339.	4.8	8
50	Synthesis of silver-integrated silica nanostructures using rice hulls and their electrochemical performance for supercapacitor application. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 17534-17544.	2.2	7
51	Hydroxyapatite-based antibacterial bio-nanomaterials: an insight into the synthesis using mussel shell as a calcium source, physicochemical properties, and nanoindentation characteristics. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	6
52	Effect of g-C <sub>3</sub> N <sub>4</sub> on structural, optical, and photocatalytic properties of hexagonal cylinder-like twinned ZnO microcrystals prepared by the hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 24095-24106.	2.2	5
53	One-pot ultrasonic-assisted synthesis of magnetic hydroxyapatite nanoparticles using mussel shell biowaste with the aid of trisodium citrate. <i>Ceramics International</i> , 2022, 48, 28299-28307.	4.8	5
54	Microwave-assisted combustion synthesis of soft ferromagnetic spinel MFe <sub>2</sub> O <sub>4</sub> (M = Ni, Mg, Zn) nanoparticles using Citrus limon fruit extract as a fuel. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	4

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55	Fish Scale Derived Nanocrystalline Hydroxyapatite: A Potential Candidate for Orthopedic Applications. Journal of Bionanoscience, 2016, 10, 140-144.	0.4	4
56	Repurposing the Antibacterial Activity of Etoposide as a Chemotherapeutic Drug in Combination with Eggshell-Derived Hydroxyapatite. ACS Biomaterials Science and Engineering, 2022, 8, 682-693.	5.2	4
57	Zinc and Carbonate Co-Substituted Nano-Hydroxyapatite. , 2011, , .		2
58	Synthesis and photoluminescence study of flower-like hydroxyapatite nanostructure for bioprobe applications. AIP Conference Proceedings, 2013, , .	0.4	2
59	Effect of Si, B, Al <sub>2</sub> O <sub>3</sub> and ZrO <sub>2</sub> nano-modifiers on the structural and mechanical properties of Fe + 0.5% C alloy. Archives of Civil and Mechanical Engineering, 2017, 17, 669-676.	3.8	2
60	Removal of Reactive Textile Dyes Using Carbonate Substituted Nanocrystalline Hydroxyapatite. Journal of Bionanoscience, 2016, 10, 38-46.	0.4	2
61	A comparative study on visible-light-driven photocatalytic activity of CdO nanowires and g-C <sub>3</sub> N <sub>4</sub> /CdO hybrid nanostructure. Journal of Materials Science: Materials in Electronics, 0, , 1.	2.2	1
62	Editorial: Design and Applications of Metal- and Metal Oxide-Based Antibacterial Materials. Frontiers in Materials, 2021, 8, , .	2.4	1
63	Hydrothermal synthesis of ZnO/C microflowers for photocatalytic degradation of organic pollutants under visible light irradiation: kinetics, mechanism and recyclability. Journal of Materials Science: Materials in Electronics, 2022, 33, 9412-9424.	2.2	1
64	Adsorption of reactive dyes on to carbonate substituted nanohydroxyapatite. , 2014, , .		0
65	Hollow MgNi <sub>1.4</sub> Zn <sub>0.6</sub> /CaCu <sub>2.79</sub> Fe <sub>4.21</sub> O <sub>12</sub> nanocomposite synthesis via ultrasonic high-temperature spray pyrolysis. Journal of the American Ceramic Society, 2018, 101, 3761-3766.	3.8	0