

Dhinasekaran Durgalakshmi

List of Publications by Year in descending order

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64
papers

1,682
citations

361045

20
h-index

301761

39
g-index

65
all docs

65
docs citations

65
times ranked

1833
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning of metal oxides photocatalytic performance using Ag nanoparticles integration. Journal of Molecular Liquids, 2020, 314, 113588.	2.3	323
2	Facile synthesis of paper based graphene electrodes for point of care devices: A double stranded DNA (dsDNA) biosensor. Journal of Colloid and Interface Science, 2020, 566, 463-472.	5.0	232
3	Electrophoretic deposition of nanocomposite (HAp + TiO ₂) on titanium alloy for biomedical applications. Ceramics International, 2012, 38, 3435-3443.	2.3	144
4	Plant-derived silica nanoparticles and composites for biosensors, bioimaging, drug delivery and supercapacitors: a review. Environmental Chemistry Letters, 2021, 19, 1667-1691.	8.3	94
5	Efficient sunlight-driven photocatalytic activity of chemically bonded GNS@TiO ₂ and GNS@ZnO heterostructures. Journal of Materials Chemistry C, 2014, 2, 6827.	2.7	54
6	Nanostructuring of a GNS-V ₂ O ₅ @TiO ₂ core-shell photocatalyst for water remediation applications under sun-light irradiation. RSC Advances, 2015, 5, 18633-18641.	1.7	43
7	Bioactive, degradable and multi-functional three-dimensional membranous scaffolds of bioglass and alginate composites for tissue regenerative applications. Biomaterials Science, 2020, 8, 4003-4025.	2.6	43
8	Selective room temperature ammonia gas sensor using nanostructured ZnO/CuO@graphene on paper substrate. Sensors and Actuators B: Chemical, 2022, 350, 130833.	4.0	42
9	Visible light driven exotic p (CuO) - n (TiO ₂) heterojunction for the photodegradation of 4-chlorophenol and antibacterial activity. Environmental Pollution, 2021, 287, 117304.	3.7	42
10	Green synthesis of white light emitting carbon quantum dots: Fabrication of white fluorescent film and optical sensor applications. Journal of Hazardous Materials, 2021, 416, 125091.	6.5	39
11	Preparation and Characterization of Polyindole@Iron Oxide Composite Polymer Electrolyte Containing LiClO ₄ . Polymer-Plastics Technology and Engineering, 2012, 51, 225-230.	1.9	34
12	Low cost and quick time absorption of organic dye pollutants under ambient condition using partially exfoliated graphite. Journal of Water Process Engineering, 2020, 34, 101078.	2.6	33
13	Stacked Bioglass/TiO ₂ nanocoatings on titanium substrate for enhanced osseointegration and its electrochemical corrosion studies. Applied Surface Science, 2015, 349, 561-569.	3.1	28
14	Role of sintering temperature dependent crystallization of bioactive glasses on erythrocyte and cytocompatibility. Processing and Application of Ceramics, 2019, 13, 12-23.	0.4	28
15	Water-soluble graphitic carbon nitride for clean environmental applications. Environmental Pollution, 2021, 269, 116172.	3.7	26
16	Photocatalytic degradation of 2,4-dichlorophenol using bio-green assisted TiO ₂ @CeO ₂ nanocomposite system. Environmental Research, 2021, 195, 110852.	3.7	26
17	Chitosan mediated 5-Fluorouracil functionalized silica nanoparticle from rice husk for anticancer activity. International Journal of Biological Macromolecules, 2020, 156, 969-980.	3.6	25
18	Photosynthesis of H ₂ and its storage on the Bandgap Engineered Mesoporous (Ni ²⁺ /Ni ³⁺)O @ TiO ₂ heterostructure. Journal of Power Sources, 2020, 466, 228305.	4.0	23

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19	Studies on corrosion and wear behavior of submicrometric diamond coated Ti alloys. Tribology International, 2013, 63, 132-140.	3.0	22
20	Graphene based nanoassembly for simultaneous detection and degradation of harmful organic contaminants from aqueous solution. RSC Advances, 2016, 6, 34342-34349.	1.7	21
21	Bio-inspired multifunctional collagen/electrospun bioactive glass membranes for bone tissue engineering applications. Materials Science and Engineering C, 2021, 126, 111856.	3.8	21
22	Nano-bioglass: A Versatile Antidote for Bone Tissue Engineering Problems. Procedia Engineering, 2014, 92, 2-8.	1.2	20
23	Analysis of solvent induced porous PMMA "Bioglass monoliths by the phase separation method " mechanical and in vitro biocompatible studies. Physical Chemistry Chemical Physics, 2015, 17, 1247-1256.	1.3	20
24	Influence of the parameters in the preparation of silica nanoparticles from biomass and chemical silica precursors towards bioimaging application. Vacuum, 2019, 160, 181-188.	1.6	20
25	Phase separation induced shell thickness variations in electrospun hollow Bioglass 45S5 fiber mats for drug delivery applications. Physical Chemistry Chemical Physics, 2015, 17, 15316-15323.	1.3	19
26	Highly reactive crystalline-phase-embedded strontium-bioactive nanorods for multimodal bioactive applications. Biomaterials Science, 2018, 6, 1764-1776.	2.6	18
27	Enhanced Emission of Zinc Nitride Colloidal Nanoparticles with Organic Dyes for Optical Sensors and Imaging Application. ACS Applied Materials & Interfaces, 2020, 12, 19245-19257.	4.0	17
28	Review "Current Trends in Disposable Graphene-Based Printed Electrode for Electrochemical Biosensors. Journal of the Electrochemical Society, 2020, 167, 067523.	1.3	16
29	Pulsed laser deposition of nanostructured bioactive glass and hydroxyapatite coatings: Microstructural and electrochemical characterization. Materials Science and Engineering C, 2021, 130, 112459.	3.8	16
30	Structural, Morphological and Antibacterial Investigation of Ag-Impregnated Sol-Gel-Derived 45S5 NanoBioglass Systems. Journal of Nanoscience and Nanotechnology, 2015, 15, 4285-4295.	0.9	14
31	Beyond Chemical Bonding Interaction: An Insight into the Growth Process of 1D ZnO on Few-Layer Graphene for Excellent Photocatalytic and Room Temperature Gas Sensing Applications. ChemistrySelect, 2018, 3, 7302-7309.	0.7	13
32	Anisotropic growth and strain-induced tunable optical properties of Ag-ZnO hierarchical nanostructures by a microwave synthesis method. Materials Chemistry and Physics, 2020, 244, 122720.	2.0	12
33	Hybrid ZnO nanostructures modified graphite electrode as an efficient urea sensor for environmental pollution monitoring. Chemosphere, 2022, 296, 133918.	4.2	12
34	Reduced graphene oxide/nano-Bioglass composites: processing and super-anion oxide evaluation. RSC Advances, 2016, 6, 19657-19661.	1.7	11
35	Room Temperature Detection of Hydrogen Gas Using Graphene Based Conductometric Gas Sensor. Journal of Nanoscience and Nanotechnology, 2017, 17, 3449-3453.	0.9	11
36	Zirconia reinforced bio-active glass coating by spray pyrolysis: Structure, surface topography, in-vitro biological evaluation and antibacterial activities. Materials Today Communications, 2020, 25, 101253.	0.9	11

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37	N-Doped zinc oxide as an effective fluorescence sensor for urea detection. <i>New Journal of Chemistry</i> , 2021, 45, 6080-6090.	1.4	10
38	Role of interfacial charge transfer process in the graphene-ZnO-MoO ₃ core-shell nanoassemblies for efficient disinfection of industrial effluents. <i>Processing and Application of Ceramics</i> , 2019, 13, 376-386.	0.4	10
39	Biomass-Derived Graphene-Based Nanocomposites: A Futuristic Material for Biomedical Applications. <i>ChemistrySelect</i> , 2022, 7, .	0.7	10
40	Graphene-Ag ₂ S hybrid nanostructures: A hybrid gas sensor for room temperature hydrogen sensing application. <i>Materials Letters</i> , 2021, 303, 130470.	1.3	9
41	Graphene-Metal-Organic Framework-Modified Electrochemical Sensors. , 2019, , 275-296.		8
42	Bioactivity and hemocompatibility of sol-gel bioactive glass synthesized under different catalytic conditions. <i>New Journal of Chemistry</i> , 2020, 44, 21026-21037.	1.4	8
43	Facile synthesis of biomass silica-silver colloidal nanoparticles and its application as highly sensitive fluorescent biosensor. <i>Surfaces and Interfaces</i> , 2021, 23, 101010.	1.5	8
44	Rapid Dilapidation of Alcohol Using Magnesium Oxide and Magnesium Aspartate based Nanostructures: A Raman Spectroscopic and Molecular Simulation Approach. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2019, 29, 1390-1399.	1.9	7
45	Recent advances in graphene-based micro-supercapacitors: Processes and applications. <i>Journal of Materials Research</i> , 2021, 36, 4102-4119.	1.2	7
46	A Roadmap of Cancer: From the Historical Evidence to Recent Salivary Metabolites-based Nanobiosensor Diagnostic Devices. <i>Current Metabolomics and Systems Biology</i> , 2021, 8, 27-52.	0.6	5
47	Sustainable multilayer biomass carbon and polymer hybrid column as potential antibacterial water filter. <i>Chemosphere</i> , 2022, 286, 131691.	4.2	5
48	TiO ₂ impregnated graphene nanostructures: An effectual photocatalysts for water remediation application. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	3
49	Bioactive assessment of bioactive glass nanostructures synthesized using synthetic and natural silica resources. <i>International Journal of Applied Ceramic Technology</i> , 2020, 17, 1976-1984.	1.1	3
50	Hot corrosion studies of nanostructured gadolinium zirconate thermal barrier coatings. <i>Ceramics International</i> , 2021, 47, 25959-25972.	2.3	3
51	Drug infused Al ₂ O ₃ -bioactive glass coatings toward the cure of orthopedic infection. <i>Progress in Biomaterials</i> , 2022, 11, 79-94.	1.8	3
52	Unravelling the effects of ibuprofen-acetaminophen infused copper-bioglass towards the creation of root canal sealant. <i>Biomedical Materials (Bristol)</i> , 2022, 17, 035001.	1.7	3
53	Fluorescent zinc titanate as an effective sensing platform for urea detection. <i>Materials Today: Proceedings</i> , 2022, 50, 101-106.	0.9	2
54	Nano-Bioglass (NBC) for bone regeneration applications-Preparation and its characterization. , 2013, , .		1

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55	Comparative studies on Indian traditional nanomedicine Yashadha Bhasma and zinc oxide nanoparticles for anti-diabetic activity. <i>Materials Research Express</i> , 2017, 4, 075016.	0.8	1
56	On the investigation of structural and biological properties of 45S5 bioglass and β -tricalcium phosphate nanostructured materials. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	1
57	Scalable Lanthanum Titanate ($\text{La}_2\text{Ti}_2\text{O}_7$) nanostructures as UV photodetectors. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 9126-9133.	1.1	1
58	In vitro bioactivity and wound healing efficiency of 45S5 nanobioactive glass- Al_2O_3 composites. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	1
59	In vitro immersion studies of optimized electrospun bioglass 45S5 fibers for tissue engineering application. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
60	Deriving magnetite nanostructures from natural resources and investigation of its erythrocyte compatibility. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	0
61	Three-Dimensional Self-healing Scaffolds for Tissue Engineering Applications. <i>Gels Horizons: From Science To Smart Materials</i> , 2021, , , 129-159.	0.3	0
62	Multiphoton confocal imaging of mammalian cells in presence of Zinc Nitride nanoparticle. , 2021, , .		0
63	Hierarchical Nanostructures for Photocatalytic Applications. , 2021, , , 65-84.		0
64	Live cell metabolic imaging of cancer cell lines using multiphoton fluorescence polarization. , 2020, , .		0