

Dhinasekaran Durgalakshmi

List of Publications by Year in descending order

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Version: 2024-02-01

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	Fluorescent zinc titanate as an effective sensing platform for urea detection. <i>Materials Today: Proceedings</i> , 2022, 50, 101-106.	0.9	2
2	Selective room temperature ammonia gas sensor using nanostructured ZnO/CuO@graphene on paper substrate. <i>Sensors and Actuators B: Chemical</i> , 2022, 350, 130833.	4.0	42
3	Sustainable multilayer biomass carbon and polymer hybrid column as potential antibacterial water filter. <i>Chemosphere</i> , 2022, 286, 131691.	4.2	5
4	Scalable Lanthanum Titanate (La ₂ Ti ₂ O ₇) nanostructures as UV photodetectors. <i>Journal of Materials Science: Materials in Electronics</i> , 2022, 33, 9126-9133.	1.1	1
5	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
6	Biomass-Derived Graphene-Based Nanocomposites: A Futuristic Material for Biomedical Applications. <i>ChemistrySelect</i> , 2022, 7, .	0.7	10
7	Hybrid ZnO nanostructures modified graphite electrode as an efficient urea sensor for environmental pollution monitoring. <i>Chemosphere</i> , 2022, 296, 133918.	4.2	12
8	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
9	Water-soluble graphitic carbon nitride for clean environmental applications. <i>Environmental Pollution</i> , 2021, 269, 116172.	3.7	26
10	Plant-derived silica nanoparticles and composites for biosensors, bioimaging, drug delivery and supercapacitors: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 1667-1691.	8.3	94
11	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
12	Three-Dimensional Self-healing Scaffolds for Tissue Engineering Applications. <i>Gels Horizons: From Science To Smart Materials</i> , 2021, , 129-159.	0.3	0
13	Multiphoton confocal imaging of mammalian cells in presence of Zinc Nitride nanoparticle. , 2021, , .		0
14	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
15	Photocatalytic degradation of 2,4-dichlorophenol using bio-green assisted TiO ₂ @CeO ₂ nanocomposite system. <i>Environmental Research</i> , 2021, 195, 110852.	3.7	26
16	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
17	Bio-inspired multifunctional collagen/electrospun bioactive glass membranes for bone tissue engineering applications. <i>Materials Science and Engineering C</i> , 2021, 126, 111856.	3.8	21
18	Recent advances in graphene-based micro-supercapacitors: Processes and applications. <i>Journal of Materials Research</i> , 2021, 36, 4102-4119.	1.2	7

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19	Green synthesis of white light emitting carbon quantum dots: Fabrication of white fluorescent film and optical sensor applications. <i>Journal of Hazardous Materials</i> , 2021, 416, 125091.	6.5	39
20	Hot corrosion studies of nanostructured gadolinium zirconate thermal barrier coatings. <i>Ceramics International</i> , 2021, 47, 25959-25972.	2.3	3
21	Visible light driven exotic p (CuO) - n (TiO ₂) heterojunction for the photodegradation of 4-chlorophenol and antibacterial activity. <i>Environmental Pollution</i> , 2021, 287, 117304.	3.7	42
22	Pulsed laser deposition of nanostructured bioactive glass and hydroxyapatite coatings: Microstructural and electrochemical characterization. <i>Materials Science and Engineering C</i> , 2021, 130, 112459.	3.8	16
23	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
24	Hierarchical Nanostructures for Photocatalytic Applications. , 2021, , 65-84.		0
25	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
26	Low cost and quick time absorption of organic dye pollutants under ambient condition using partially exfoliated graphite. <i>Journal of Water Process Engineering</i> , 2020, 34, 101078.	2.6	33
27	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
28	Tuning of metal oxides photocatalytic performance using Ag nanoparticles integration. <i>Journal of Molecular Liquids</i> , 2020, 314, 113588.	2.3	323
29	Bioactive, degradable and multi-functional three-dimensional membranous scaffolds of bioglass and alginate composites for tissue regenerative applications. <i>Biomaterials Science</i> , 2020, 8, 4003-4025.	2.6	43
30	Zirconia reinforced bio-active glass coating by spray pyrolysis: Structure, surface topography, in-vitro biological evaluation and antibacterial activities. <i>Materials Today Communications</i> , 2020, 25, 101253.	0.9	11
31	Enhanced Emission of Zinc Nitride Colloidal Nanoparticles with Organic Dyes for Optical Sensors and Imaging Application. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 19245-19257.	4.0	17
32	Anisotropic growth and strain-induced tunable optical properties of Ag-ZnO hierarchical nanostructures by a microwave synthesis method. <i>Materials Chemistry and Physics</i> , 2020, 244, 122720.	2.0	12
33	Facile synthesis of paper based graphene electrodes for point of care devices: A double stranded DNA (dsDNA) biosensor. <i>Journal of Colloid and Interface Science</i> , 2020, 566, 463-472.	5.0	232
34	Chitosan mediated 5-Fluorouracil functionalized silica nanoparticle from rice husk for anticancer activity. <i>International Journal of Biological Macromolecules</i> , 2020, 156, 969-980.	3.6	25
35	Review Current Trends in Disposable Graphene-Based Printed Electrode for Electrochemical Biosensors. <i>Journal of the Electrochemical Society</i> , 2020, 167, 067523.	1.3	16
36	Photosynthesis of H ₂ and its storage on the Bandgap Engineered Mesoporous (Ni ²⁺ /Ni ³⁺)O @ TiO ₂ heterostructure. <i>Journal of Power Sources</i> , 2020, 466, 228305.	4.0	23

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37	Live cell metabolic imaging of cancer cell lines using multiphoton fluorescence polarization. , 2020, , .		0
38	In vitro bioactivity and wound healing efficiency of 45S5 nanobioactive glass-Al ₂ O ₃ composites. AIP Conference Proceedings, 2020, , .	0.3	1
39	On the investigation of structural and biological properties of 45S5 bioglass and $\hat{1}^2$ -tricalcium phosphate nanostructured materials. AIP Conference Proceedings, 2019, , .	0.3	1
40	Rapid Dilapidation of Alcohol Using Magnesium Oxide and Magnesium Aspartate based Nanostructures: A Raman Spectroscopic and Molecular Simulation Approach. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 1390-1399.	1.9	7
41	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
42	Grapheneâ€“Metalâ€“Organic Framework-Modified Electrochemical Sensors. , 2019, , 275-296.		8
43	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
44	Role of interfacial charge transfer process in the graphene-ZnO-MoO ₃ core-shell nanoassemblies for efficient disinfection of industrial effluents. Processing and Application of Ceramics, 2019, 13, 376-386.	0.4	10
45	Deriving magnetite nanostructures from natural resources and investigation of its erythrocyte compatibility. AIP Conference Proceedings, 2018, , .	0.3	0
46	Highly reactive crystalline-phase-embedded strontium-bioactive nanorods for multimodal bioactive applications. Biomaterials Science, 2018, 6, 1764-1776.	2.6	18
47	Beyond Chemical Bonding Interaction: An Insight into the Growth Process of 1D ZnO on Fewâ€“Layer Graphene for Excellent Photocatalytic and Room Temperature Gas Sensing Applications. ChemistrySelect, 2018, 3, 7302-7309.	0.7	13
48	Room Temperature Detection of Hydrogen Gas Using Graphene Based Conductometric Gas Sensor. Journal of Nanoscience and Nanotechnology, 2017, 17, 3449-3453.	0.9	11
49	Comparative studies on Indian traditional nanomedicine Yashadha Bhasma and zinc oxide nanoparticles for anti-diabetic activity. Materials Research Express, 2017, 4, 075016.	0.8	1
50	Graphene based nanoassembly for simultaneous detection and degradation of harmful organic contaminants from aqueous solution. RSC Advances, 2016, 6, 34342-34349.	1.7	21
51	Reduced graphene oxide/nano-Bioglass composites: processing and super-anion oxide evaluation. RSC Advances, 2016, 6, 19657-19661.	1.7	11
52	TiO ₂ impregnated graphene nanostructures: An effectual photocatalysts for water remediation application. AIP Conference Proceedings, 2015, , .	0.3	3
53	In vitro immersion studies of optimized electrospun bioglass 45S5 fibers for tissue engineering application. AIP Conference Proceedings, 2015, , .	0.3	0
54	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

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55	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
56	Nanostructuring of a GNS-V ₂ O ₅ â€“TiO ₂ coreâ€“shell photocatalyst for water remediation applications under sun-light irradiation. RSC Advances, 2015, 5, 18633-18641.	1.7	43
57	Structural, Morphological and Antibacterial Investigation of Ag-Impregnated Solâ€“Gel-Derived 45S5 NanoBioglass Systems. Journal of Nanoscience and Nanotechnology, 2015, 15, 4285-4295.	0.9	14
58	Analysis of solvent induced porous PMMAâ€“Bioglass monoliths by the phase separation method â€“ mechanical and in vitro biocompatible studies. Physical Chemistry Chemical Physics, 2015, 17, 1247-1256.	1.3	20
59	Nano-bioglass: A Versatile Antidote for Bone Tissue Engineering Problems. Procedia Engineering, 2014, 92, 2-8.	1.2	20
60	Efficient sunlight-driven photocatalytic activity of chemically bonded GNSâ€“TiO ₂ and GNSâ€“ZnO heterostructures. Journal of Materials Chemistry C, 2014, 2, 6827.	2.7	54
61	Studies on corrosion and wear behavior of submicrometric diamond coated Ti alloys. Tribology International, 2013, 63, 132-140.	3.0	22
62	Nano-Bioglass (NBC) for bone regeneration applications-Preparation and its characterization. , 2013, , .		1
63	Preparation and Characterization of Polyindoleâ€“Iron Oxide Composite Polymer Electrolyte Containing LiClO ₄ . Polymer-Plastics Technology and Engineering, 2012, 51, 225-230.	1.9	34
64	Electrophoretic deposition of nanocomposite (HAp + TiO ₂) on titanium alloy for biomedical applications. Ceramics International, 2012, 38, 3435-3443.	2.3	144