

Thomas Nesakumar Jebakumar Imman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9391817/publications.pdf>

Version: 2024-02-01

104
papers

8,050
citations

46918

47
h-index

49773

87
g-index

104
all docs

104
docs citations

104
times ranked

7679
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly fluorescent nitrogen-doped carbon dots derived from <i>Phyllanthus acidus</i> utilized as a fluorescent probe for label-free selective detection of Fe ³⁺ ions, live cell imaging and fluorescent ink. <i>Biosensors and Bioelectronics</i> , 2018, 99, 303-311.	5.3	537
2	Instant green synthesis of silver nanoparticles using <i>Terminalia chebula</i> fruit extract and evaluation of their catalytic activity on reduction of methylene blue. <i>Process Biochemistry</i> , 2012, 47, 1351-1357.	1.8	405
3	Facile green synthesis of nitrogen-doped carbon dots using <i>Chionanthus retusus</i> fruit extract and investigation of their suitability for metal ion sensing and biological applications. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 497-509.	4.0	301
4	Toxicity of Doxorubicin (Dox) to different experimental organ systems. <i>Life Sciences</i> , 2018, 200, 26-30.	2.0	297
5	Hydrophilic nitrogen-doped carbon dots from biowaste using dwarf banana peel for environmental and biological applications. <i>Fuel</i> , 2020, 275, 117821.	3.4	273
6	Turn-off fluorescence sensor for the detection of ferric ion in water using green synthesized N-doped carbon dots and its bio-imaging. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 158, 235-242.	1.7	271
7	Nitrogen-doped carbon dots originating from unripe peach for fluorescent bioimaging and electrocatalytic oxygen reduction reaction. <i>Journal of Colloid and Interface Science</i> , 2016, 482, 8-18.	5.0	268
8	Microwave assisted green synthesis of fluorescent N-doped carbon dots: Cytotoxicity and bio-imaging applications. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 161, 154-161.	1.7	261
9	Inorganic nanoparticles: A potential cancer therapy for human welfare. <i>International Journal of Pharmaceutics</i> , 2018, 539, 104-111.	2.6	226
10	Facile synthesis of zinc oxide nanoparticles decorated graphene oxide composite via simple solvothermal route and their photocatalytic activity on methylene blue degradation. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 162, 500-510.	1.7	203
11	Chitosan nanopolymers: An overview of drug delivery against cancer. <i>International Journal of Biological Macromolecules</i> , 2019, 130, 727-736.	3.6	179
12	Efficient synthesis of highly fluorescent nitrogen-doped carbon dots for cell imaging using unripe fruit extract of <i>Prunus mume</i> . <i>Applied Surface Science</i> , 2016, 384, 432-441.	3.1	177
13	Betel-derived nitrogen-doped multicolor carbon dots for environmental and biological applications. <i>Journal of Molecular Liquids</i> , 2019, 296, 111817.	2.3	161
14	Biogenic robust synthesis of silver nanoparticles using <i>Punica granatum</i> peel and its application as a green catalyst for the reduction of an anthropogenic pollutant 4-nitrophenol. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 104, 262-264.	2.0	158
15	Sustainable synthesis of carbon quantum dots from banana peel waste using hydrothermal process for in vivo bioimaging. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 126, 114417.	1.3	158
16	Green synthesis of nitrogen-doped graphitic carbon sheets with use of <i>Prunus persica</i> for supercapacitor applications. <i>Applied Surface Science</i> , 2017, 393, 276-286.	3.1	146
17	Reductive-degradation of carcinogenic azo dyes using <i>Anacardium occidentale</i> testa derived silver nanoparticles. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 162, 604-610.	1.7	143
18	Green synthesis of silver nanoparticles using <i>Terminalia cuneata</i> and its catalytic action in reduction of direct yellow-12 dye. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 161, 122-129.	2.0	135

#	ARTICLE	IF	CITATIONS
19	Hydrothermal conversion of <i>Magnolia liliiflora</i> into nitrogen-doped carbon dots as an effective turn-off fluorescence sensing, multi-colour cell imaging and fluorescent ink. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 169, 321-328.	2.5	134
20	Biological and catalytic applications of green synthesized fluorescent N-doped carbon dots using <i>Hylocereus undatus</i> . <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2017, 168, 142-148.	1.7	128
21	<i>Caulerpa racemosa</i> : a marine green alga for eco-friendly synthesis of silver nanoparticles and its catalytic degradation of methylene blue. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 1401-1408.	1.7	126
22	Effective photocatalytic degradation of anthropogenic dyes using graphene oxide grafting titanium dioxide nanoparticles under UV-light irradiation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 333, 92-104.	2.0	123
23	An ultrasensitive photoelectrochemical biosensor for glucose based on bio-derived nitrogen-doped carbon sheets wrapped titanium dioxide nanoparticles. <i>Biosensors and Bioelectronics</i> , 2019, 126, 160-169.	5.3	121
24	In-situ green synthesis of nitrogen-doped carbon dots for bioimaging and TiO ₂ nanoparticles@nitrogen-doped carbon composite for photocatalytic degradation of organic pollutants. <i>Journal of Alloys and Compounds</i> , 2018, 766, 12-24.	2.8	120
25	Concurrent synthesis of nitrogen-doped carbon dots for cell imaging and ZnO@nitrogen-doped carbon sheets for photocatalytic degradation of methylene blue. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 350, 75-85.	2.0	114
26	Green synthesized multiple fluorescent nitrogen-doped carbon quantum dots as an efficient label-free optical nanoprobe for in vivo live-cell imaging. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 372, 99-107.	2.0	112
27	Facile synthesis of carbon encapsulated RuO ₂ nanorods for supercapacitor and electrocatalytic hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2323-2329.	3.8	98
28	High-performance glucose biosensor based on green synthesized zinc oxide nanoparticle embedded nitrogen-doped carbon sheet. <i>Journal of Electroanalytical Chemistry</i> , 2018, 816, 195-204.	1.9	97
29	Direct solvothermal synthesis of zinc oxide nanoparticle decorated graphene oxide nanocomposite for efficient photodegradation of azo-dyes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 337, 100-111.	2.0	87
30	Green synthesized N-doped graphitic carbon sheets coated carbon cloth as efficient metal free electrocatalyst for hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 14390-14399.	3.8	82
31	Tunable fluorescent carbon dots from biowaste as fluorescence ink and imaging human normal and cancer cells. <i>Environmental Research</i> , 2022, 204, 112365.	3.7	78
32	Recent studies on polymeric materials for supercapacitor development. <i>Journal of Energy Storage</i> , 2022, 49, 104149.	3.9	77
33	Indian Gooseberry-Derived Tunable Fluorescent Carbon Dots as a Promise for In Vitro/In Vivo Multicolor Bioimaging and Fluorescent Ink. <i>ACS Omega</i> , 2018, 3, 17590-17601.	1.6	76
34	Supercapacitor performance of carbon supported Co ₃ O ₄ nanoparticles synthesized using <i>Terminalia chebula</i> fruit. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 68, 489-495.	2.7	72
35	Facile synthesis of a novel nitrogen-doped carbon dot adorned zinc oxide composite for photodegradation of methylene blue. <i>Dalton Transactions</i> , 2020, 49, 17725-17736.	1.6	70
36	Biochar from green waste for phosphate removal with subsequent disposal. <i>Waste Management</i> , 2017, 68, 752-759.	3.7	68

#	ARTICLE	IF	CITATIONS
37	Catalytic degradation of organic dyes using green synthesized N-doped carbon supported silver nanoparticles. <i>Fuel</i> , 2020, 280, 118682.	3.4	67
38	Electrocatalytic Reduction of Benzyl Chloride by Green Synthesized Silver Nanoparticles Using Pod Extract of <i>Acacia nilotica</i> . <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 1326-1332.	3.2	63
39	Electrocatalytic performance of carbon dots/palladium nanoparticles composite towards hydrogen evolution reaction in acid medium. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 28800-28811.	3.8	63
40	Sustainable synthesis of multifunctional carbon dots using biomass and their applications: A mini-review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105802.	3.3	61
41	Direct growth of iron oxide nanoparticles filled multi-walled carbon nanotube via chemical vapour deposition method as high-performance supercapacitors. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2349-2360.	3.8	60
42	Highly graphitic carbon nanosheets synthesized over tailored mesoporous molecular sieves using acetylene by chemical vapor deposition method. <i>RSC Advances</i> , 2015, 5, 93364-93373.	1.7	59
43	Leftover Kiwi Fruit Peel-Derived Carbon Dots as a Highly Selective Fluorescent Sensor for Detection of Ferric Ion. <i>Chemosensors</i> , 2021, 9, 166.	1.8	54
44	NaBH ₄ reduction of ortho and para-nitroaniline catalyzed by silver nanoparticles synthesized using <i>Tamarindus indica</i> seed coat extract. <i>Research on Chemical Intermediates</i> , 2016, 42, 713-724.	1.3	53
45	Green synthesis of nitrogen-doped carbon nanograss for supercapacitors. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 102, 475-486.	2.7	53
46	Electrocatalytic and energy storage performance of bio-derived sulphur-nitrogen-doped carbon. <i>Journal of Electroanalytical Chemistry</i> , 2019, 833, 357-369.	1.9	50
47	One-pot dual product synthesis of hierarchical Co ₃ O ₄ @N-rGO for supercapacitors, N-GDs for label-free detection of metal ion and bio-imaging applications. <i>Ceramics International</i> , 2018, 44, 2869-2883.	2.3	49
48	Enhanced solubility of guanosine by inclusion complexes with cyclodextrin derivatives: Preparation, characterization, and evaluation. <i>Carbohydrate Polymers</i> , 2019, 224, 115166.	5.1	48
49	Facile synthesis of monodisperse hollow carbon nanospheres using sucrose by carbonization route. <i>Materials Letters</i> , 2016, 166, 145-149.	1.3	47
50	Corrosion inhibition performance of spermidine on mild steel in acid media. <i>Journal of Molecular Liquids</i> , 2018, 264, 483-489.	2.3	47
51	Electro-synthesis of sulfur doped nickel cobalt layered double hydroxide for electrocatalytic hydrogen evolution reaction and supercapacitor applications. <i>Journal of Electroanalytical Chemistry</i> , 2019, 833, 105-112.	1.9	47
52	Optical Sensor for Dissolved Ammonia Through the Green Synthesis of Silver Nanoparticles by Fruit Extract of <i>Terminalia chebula</i> . <i>Journal of Cluster Science</i> , 2016, 27, 683-690.	1.7	45
53	Binder-free electro-synthesis of highly ordered nickel oxide nanoparticles and its electrochemical performance. <i>Electrochimica Acta</i> , 2018, 283, 1609-1617.	2.6	44
54	Facile synthesis of nitrogen-doped porous carbon materials using waste biomass for energy storage applications. <i>Chemosphere</i> , 2022, 289, 133225.	4.2	40

#	ARTICLE	IF	CITATIONS
55	Eco-friendly synthesis of tunable fluorescent carbon nanodots from <i>Malus floribunda</i> for sensors and multicolor bioimaging. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 390, 112336.	2.0	38
56	Biogenic Synthesis of Silver Nanoparticles Using <i>Cnidium officinale</i> Extract and Their Catalytic Reduction of 4-Nitroaniline. <i>Journal of Cluster Science</i> , 2016, 27, 285-298.	1.7	36
57	Facile hydrothermal synthesis of nitrogen rich blue fluorescent carbon dots for cell bio-imaging of <i>Candida albicans</i> . <i>Process Biochemistry</i> , 2020, 88, 113-119.	1.8	35
58	Sol-gel based hybrid silane coatings for enhanced corrosion protection of copper in aqueous sodium chloride. <i>Journal of Molecular Liquids</i> , 2020, 302, 112551.	2.3	35
59	A novel binder-free electro-synthesis of hierarchical nickel sulfide nanostructures on nickel foam as a battery-type electrode for hybrid-capacitors. <i>Fuel</i> , 2020, 276, 118077.	3.4	34
60	Sol-Gel Coating with 3-Mercaptopropyltrimethoxysilane as Precursor for Corrosion Protection of Aluminium Metal. <i>Journal of Materials Science and Technology</i> , 2014, 30, 814-820.	5.6	32
61	Synthesis and characterization of graphenated carbon nanotubes on IONPs using acetylene by chemical vapor deposition method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015, 74, 355-362.	1.3	32
62	Electrochemically exfoliated graphene sheets as electrode material for aqueous symmetric supercapacitors. <i>Surface and Coatings Technology</i> , 2021, 416, 127150.	2.2	32
63	Deep eutectic solvent assisted electrosynthesis of ruthenium nanoparticles on stainless steel mesh for electrocatalytic hydrogen evolution reaction. <i>Fuel</i> , 2021, 297, 120786.	3.4	32
64	Copper(I) Bromide-Dimethyl Sulfide-Catalyzed Direct Sulfanylation of 4-Hydroxycoumarins and 4-Hydroxyquinolinones with Arylsulfonylhydrazides and Selective Fluorescence Switch-On Sensing of Cadmium(II) Ion in Water. <i>Advanced Synthesis and Catalysis</i> , 2016, 358, 3050-3056.	2.1	30
65	Bioresource-derived polymer composites for energy storage applications: Brief review. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105832.	3.3	28
66	Advanced opportunities and insights on the influence of nitrogen incorporation on the physico-/electro-chemical properties of robust electrocatalysts for electrocatalytic energy conversion. <i>Coordination Chemistry Reviews</i> , 2021, 449, 214209.	9.5	28
67	Studies on Ervatinine - The anticorrosive phytoconstituent of <i>Ervatamia coronaria</i> . <i>Arabian Journal of Chemistry</i> , 2017, 10, S522-S530.	2.3	27
68	Solid Waste-Derived Carbon Fibers-Trapped Nickel Oxide Composite Electrode for Energy Storage Application. <i>Energy & Fuels</i> , 2020, 34, 14958-14967.	2.5	27
69	Electrocatalytic study of carbon dots/ Nickel iron layered double hydroxide composite for oxygen evolution reaction in alkaline medium. <i>Fuel</i> , 2022, 320, 123947.	3.4	27
70	Direct electro-synthesis of MnO ₂ nanoparticles over nickel foam from spent alkaline battery cathode and its supercapacitor performance. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 97, 414-423.	2.7	26
71	One-pot synthesis of Fe ₃ O ₄ @graphite sheets as electrocatalyst for water electrolysis. <i>Fuel</i> , 2020, 277, 118235.	3.4	26
72	Fabrication of corrosion resistant mussel-yarn like superhydrophobic composite coating on aluminum surface. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 77, 302-310.	2.7	25

#	ARTICLE	IF	CITATIONS
73	A Short Review on Recent Advances of Hydrogel-Based Adsorbents for Heavy Metal Ions. <i>Metals</i> , 2021, 11, 864.	1.0	24
74	Enhanced electrocatalytic and supercapacitive performance using the synergistic effect of defect-rich N/S co-doped hierarchical porous carbon. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5697-5708.	2.5	23
75	Ultrasonic-assisted efficient synthesis of inclusion complexes of salsalate drug and β -cyclodextrin derivatives for potent biomedical applications. <i>Journal of Molecular Liquids</i> , 2020, 319, 114358.	2.3	22
76	Zirconium oxide intercalated sodium montmorillonite scaffold as an effective adsorbent for the elimination of phosphate and hexavalent chromium ions. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106053.	3.3	22
77	Sustainable Synthesis of Silver Nanoparticles Using Marine Algae for Catalytic Degradation of Methylene Blue. <i>Catalysts</i> , 2021, 11, 1377.	1.6	22
78	Regioselective Construction of Functionalized Biarylols by $\text{Fe}(\text{OTf})_3$ -Catalyzed Direct Arylation of 1-Diazonaphthalen-2-ones and Their Fluorescence Properties. <i>European Journal of Organic Chemistry</i> , 2017, 2017, 7046-7054.	1.2	21
79	Smartphone-Operated Wireless Chemical Sensors: A Review. <i>Chemosensors</i> , 2022, 10, 55.	1.8	21
80	Facile one-pot synthesis of novel structured IONP@C-HIOP composite as superior electrocatalyst for hydrogen evolution reaction and aqueous waste investigation of bio-imaging applications. <i>Journal of Molecular Liquids</i> , 2018, 268, 343-353.	2.3	20
81	Highly selective fluorescence turn-on sensor for Cu^{2+} ions and its application in confocal imaging of living cells. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 988-995.	4.0	19
82	Multicolor-emitting carbon dots from <i>Malus floribunda</i> and their interaction with <i>Caenorhabditis elegans</i> . <i>Materials Letters</i> , 2020, 261, 127153.	1.3	19
83	Ultrasonic synthesis, characterization and energy applications of Ni-B alloy nanorods. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 80, 901-907.	2.7	18
84	Sustainable synthesis of silver nanoparticles using <i>Alstonia scholaris</i> for enhanced catalytic degradation of methylene blue. <i>Journal of Molecular Structure</i> , 2021, 1246, 131208.	1.8	18
85	Energy and environmental applications of ultrasonically sulfur doped copper-nickel hydroxides with heterostructures. <i>Journal of Alloys and Compounds</i> , 2017, 729, 126-136.	2.8	16
86	Sonochemical fabrication of petal array-like copper/nickel oxide composite foam as a pseudocapacitive material for energy storage. <i>Applied Surface Science</i> , 2017, 396, 1245-1250.	3.1	16
87	Synthetic disposable material derived-carbon supported NiO: Efficient hybrid electrocatalyst for water oxidation process. <i>Fuel</i> , 2021, 294, 120558.	3.4	16
88	Highly Fluorescent Carbon Dots as a Potential Fluorescence Probe for Selective Sensing of Ferric Ions in Aqueous Solution. <i>Chemosensors</i> , 2021, 9, 301.	1.8	15
89	Facile synthesis of novel molybdenum disulfide decorated banana peel porous carbon electrode for hydrogen evolution reaction. <i>Chemosphere</i> , 2022, 307, 135712.	4.2	15
90	Photocatalytic degradation of persistent brilliant green dye in water using CeO_2/ZnO nanospheres. <i>Chemical Engineering Research and Design</i> , 2021, 156, 457-464.	2.7	14

#	ARTICLE	IF	CITATIONS
91	Morus nigra-derived hydrophilic carbon dots for the highly selective and sensitive detection of ferric ion in aqueous media and human colon cancer cell imaging. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 635, 128073.	2.3	14
92	Enhancement of solubility, antibiofilm, and antioxidant activity of uridine by inclusion in β -cyclodextrin derivatives. <i>Journal of Molecular Liquids</i> , 2020, 306, 112849.	2.3	13
93	Exfoliation and Noncovalent Functionalization of Graphene Surface with Poly-N-Vinyl-2-Pyrrolidone by In Situ Polymerization. <i>Molecules</i> , 2021, 26, 1534.	1.7	12
94	Regioselective synthesis of 3-anthracenyloxindoles and 3-carbazolyloxindoles by indium(III)-catalyzed direct arylation and their fluorescent chemosensor properties. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 7313-7323.	1.5	11
95	Pulsed laser rusted stainless steel: a robust electrode material applied for energy storage and generation applications. <i>Sustainable Energy and Fuels</i> , 2020, 4, 1242-1253.	2.5	11
96	Ecofriendly synthesis of silver nanoparticles using <i>Heterotheca subaxillaris</i> flower and its catalytic performance on reduction of methyl orange. <i>Biochemical Engineering Journal</i> , 2022, 187, 108447.	1.8	11
97	Rapid response and highly selective sensing of adenosine based on novel photoluminescent vanadium nanoclusters anchored on MoS ₂ nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2020, 306, 127581.	4.0	10
98	Betel leaf derived multicolor emitting carbon dots as a fluorescent probe for imaging mouse normal fibroblast and human thyroid cancer cells. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 136, 115010.	1.3	10
99	<i>Aesculus turbinata</i> biomass-originated nanoporous carbon for energy storage applications. <i>Materials Letters</i> , 2022, 309, 131445.	1.3	10
100	Areca catechu Assisted Synthesis of Silver Nanoparticles and its Electrocatalytic Activity on Glucose Oxidation. <i>Journal of Cluster Science</i> , 2017, 28, 3139-3148.	1.7	7
101	Comparative investigation on antibacterial studies of <i>Oxalis corniculata</i> and silver nanoparticle stabilized graphene surface. <i>Journal of Materials Science</i> , 2022, 57, 11630-11648.	1.7	7
102	Facile synthesis of molybdenum disulfide adorned heteroatom-doped porous carbon for energy storage applications. <i>Journal of Nanostructure in Chemistry</i> , 2023, 13, 545-561.	5.3	5
103	Straightforward synthesis of diverse dipyrzolylmethane derivatives and their application for fluorescence sensing of Cu ²⁺ ions. <i>RSC Advances</i> , 2016, 6, 56323-56329.	1.7	4
104	Eco-friendly green synthesis of silver nanoparticles using <i>Luffa acutangula</i> : synthesis, characterisation and catalytic degradation of methylene blue and malachite green dyes. <i>International Journal of Environmental Analytical Chemistry</i> , 0, , 1-13.	1.8	2