

Mathur Gopalakrishnan Sethuraman

List of Publications by Year in descending order

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72
papers

4,310
citations

172207

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110170

64
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docs citations

72
times ranked

4322
citing authors

#	ARTICLE	IF	CITATIONS
1	Suzuki-Miyaura cross-coupling reaction assisted by palladium nanoparticles-decorated zeolite 13X nanocomposite: a greener approach. <i>Research on Chemical Intermediates</i> , 2022, 48, 1111-1128.	1.3	10
2	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
3	Synthesis of blue emissive fluorescent nitrogen doped carbon dots from <i>Annona squamosa</i> fruit extract and their diverse applications in the field of catalysis and bio-imaging. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 432, 114097.	2.0	8
4	Enhancement of protection of copper through electropolymerised poly-2-amino-1,3,4-thiadiazole and its composite films. <i>Materials Chemistry and Physics</i> , 2021, 259, 123987.	2.0	6
5	Effects of pH on inhibitor-doped hybrid protective sol-gel coatings on the copper electrode surface. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 119, 259-268.	2.7	15
6	A Facile Approach for Fabrication Superhydrophobic and UV-blocking Cotton Fabrics with Self-cleaning Properties. <i>Fibers and Polymers</i> , 2021, 22, 1033-1040.	1.1	10
7	Efficient green synthesis of N,B co-doped bright fluorescent carbon nanodots and their electrocatalytic and bio-imaging applications. <i>Diamond and Related Materials</i> , 2021, 116, 108437.	1.8	23
8	Electrochemically exfoliated graphene sheets as electrode material for aqueous symmetric supercapacitors. <i>Surface and Coatings Technology</i> , 2021, 416, 127150.	2.2	32
9	Independent hydrothermal synthesis of the undoped, nitrogen, boron and sulphur doped biogenic carbon nanodots and their potential application in the catalytic chemo-reduction of Alizarine yellow R azo dye. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 260, 119920.	2.0	22
10	Ecofriendly Synthesis of Fluorescent Nitrogen-Doped Carbon Dots from <i>Coccinia grandis</i> and its Efficient Catalytic Application in the Reduction of Methyl Orange. <i>Journal of Fluorescence</i> , 2020, 30, 103-112.	1.3	55
11	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
12	Robust composite coating with superior corrosion inhibitory performance on surgical grade 316L stainless steel in Ringer solution. <i>Iranian Polymer Journal (English Edition)</i> , 2020, 29, 919-931.	1.3	3
13	Recent developments in sol-gel based polymer electrolyte membranes for vanadium redox flow batteries - A review. <i>Polymer Testing</i> , 2020, 89, 106567.	2.3	29
14	Reduction of Congo red using nitrogen doped fluorescent carbon nanodots obtained from sprout extract of <i>Borassus flabellifer</i> . <i>Chemical Physics Letters</i> , 2020, 754, 137646.	1.2	27
15	Fabrication of a superhydrophobic and flame-retardant cotton fabric using a DNA-based coating. <i>Journal of Materials Science</i> , 2020, 55, 11959-11969.	1.7	45
16	Influence of phyto-derived nitrogen doped carbon dots from the seeds of <i>Azadirachta indica</i> on the NaBH ₄ reduction of Safranin-O dye. <i>Diamond and Related Materials</i> , 2020, 108, 107984.	1.8	23
17	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
18	An Automated System for the Assessment of Interview Performance through Audio & Emotion Cues. , 2019, , .		4

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19	Hydrothermally Green Synthesized Nitrogen-Doped Carbon Dots from <i>Phyllanthus emblica</i> and Their Catalytic Ability in the Detoxification of Textile Effluents. <i>ACS Omega</i> , 2019, 4, 3449-3457.	1.6	68
20	Facile green synthesis of fluorescent N-doped carbon dots from <i>Actinidia deliciosa</i> and their catalytic activity and cytotoxicity applications. <i>Optical Materials</i> , 2018, 78, 181-190.	1.7	98
21	Fabrication of superhydrophobic and enhanced flame-retardant coatings over cotton fabric. <i>Cellulose</i> , 2018, 25, 3151-3161.	2.4	40
22	Corrosion inhibition ability of electropolymerised composite film of 2-amino-5-mercapto-1,3,4-thiadiazole/TiO ₂ deposited over the copper electrode in neutral medium. <i>Materials Today Communications</i> , 2018, 14, 27-39.	0.9	27
23	Corrosion inhibition performance of spermidine on mild steel in acid media. <i>Journal of Molecular Liquids</i> , 2018, 264, 483-489.	2.3	47
24	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
25	Surface modification, characterization and corrosion protection of 1,3-diphenylthiourea doped sol-gel coating on aluminium. <i>Progress in Organic Coatings</i> , 2017, 111, 112-123.	1.9	31
26	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
27	Hybrid sol-gel/thiourea binary coating for the mitigation of copper corrosion in neutral medium. <i>Progress in Organic Coatings</i> , 2017, 102, 259-267.	1.9	22
28	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
29	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
30	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
31	Design of electrically conductive superhydrophobic antibacterial cotton fabric through hierarchical architecture using bimetallic deposition. <i>Journal of Alloys and Compounds</i> , 2017, 724, 240-248.	2.8	27
32	Fabrication of copper-based superhydrophobic self-cleaning antibacterial coating over cotton fabric. <i>Cellulose</i> , 2017, 24, 395-407.	2.4	111
33	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
34	Studies on Ervatinine – The anticorrosive phytoconstituent of <i>Ervatamia coronaria</i> . <i>Arabian Journal of Chemistry</i> , 2017, 10, S522-S530.	2.3	27
35	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
36	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

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37	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
38	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
39	Studies on the effects of thiourea and its derivatives doped "Hybrid/zirconium nanocomposite based sol-gel coating for the corrosion behaviour of aluminum metal. <i>Progress in Organic Coatings</i> , 2016, 99, 463-473.	1.9	19
40	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
41	A study of copper corrosion inhibition by self-assembled films of 3-mercapto-1H-1,2,4-triazole. <i>Research on Chemical Intermediates</i> , 2016, 42, 1809-1821.	1.3	16
42	A novel hybrid composite coating of poly-3-amino-5-mercapto-1,2,4-triazole/TiO ₂ on copper for corrosion protection. <i>Iranian Polymer Journal (English Edition)</i> , 2016, 25, 119-128.	1.3	7
43	Surface protection of copper by allyl thiourea and hybrid sol-gel coatings. <i>Progress in Organic Coatings</i> , 2016, 90, 380-389.	1.9	16
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	Investigation of inhibiting properties of self-assembled films of 4-aminothiophenol on copper in 3.5% NaCl. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 1107-1117.	1.4	12
46	Fabrication of micro-nanocomposite coatings with lotus leaf like texture by combining electroless and candle soot depositions. <i>New Journal of Chemistry</i> , 2015, 39, 3337-3340.	1.4	15
47	Assessment of the corrosion protection ability of cysteamine and hybrid sol-gel twin layers on copper in 1% NaCl. <i>RSC Advances</i> , 2015, 5, 8693-8705.	1.7	7
48	Transformation of hydrophobic surface into superhydrophobic surface by interfacial flower like silver films. <i>Surface and Interface Analysis</i> , 2015, 47, 423-428.	0.8	10
49	Improved copper corrosion resistance of epoxy-functionalized hybrid sol-gel monolayers by thiosemicarbazide. <i>Ionics</i> , 2015, 21, 1477-1488.	1.2	12
50	Synthesis, characterization and corrosion protection of poly-4-methyl-3-mercapto-1,2,4-triazole/TiO ₂ composite on copper. <i>Polymer Bulletin</i> , 2014, 71, 3249-3260.	1.7	7
51	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
52	Corrosion protection ability of self-assembled monolayer of 3-amino-5-mercapto-1,2,4-triazole on copper electrode. <i>Thin Solid Films</i> , 2014, 562, 32-36.	0.8	27
53	Enhancement of corrosion protection of 3-glycidoxypropyltrimethoxysilane-based sol-gel coating through methylthiourea doping. <i>Journal of Coatings Technology Research</i> , 2014, 11, 545-554.	1.2	17
54	Corrosion protection behaviour of sol-gel derived N,N-dimethylthiourea doped 3-glycidoxypropyltrimethoxysilane on aluminium. <i>Progress in Organic Coatings</i> , 2014, 77, 136-141.	1.9	25

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55	Biogenic robust synthesis of silver nanoparticles using Punica granatum peel and its application as a green catalyst for the reduction of an anthropogenic pollutant 4-nitrophenol. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 104, 262-264.	2.0	158
56	Electrocatalytic Reduction of Benzyl Chloride by Green Synthesized Silver Nanoparticles Using Pod Extract of Acacia nilotica. ACS Sustainable Chemistry and Engineering, 2013, 1, 1326-1332.	3.2	63
57	Electrosynthesis of a Novel Poly(3-amino-1,2,4-triazole) + TiO ₂ Hybrid Composite on Copper and Its Corrosion Protection. Industrial & Engineering Chemistry Research, 2013, 52, 15057-15065.	1.8	15
58	Studies on Chemical Composition of Essential Oils from Leaf and Inflorescence of Hedychium larsenii M. Dan & Sathish. Journal of Essential Oil Research, 2013, 25, 33-38.	1.3	4
59	Caulerpin – A bis-Indole Alkaloid As a Green Inhibitor for the Corrosion of Mild Steel in 1 M HCl Solution from the Marine Alga Caulerpa racemosa. Industrial & Engineering Chemistry Research, 2012, 51, 10399-10407.	1.8	130
60	Instant green synthesis of silver nanoparticles using Terminalia chebula fruit extract and evaluation of their catalytic activity on reduction of methylene blue. Process Biochemistry, 2012, 47, 1351-1357.	1.8	405
61	Spirulina platensis – A novel green inhibitor for acid corrosion of mild steel. Arabian Journal of Chemistry, 2012, 5, 155-161.	2.3	103
62	Anti-inflammatory activity of roots of Ecbolium viride (Forsk) Merrill. Journal of Ethnopharmacology, 2010, 128, 248-250.	2.0	22
63	Inhibition of corrosion of mild steel in sulphuric acid medium by Calotropis procera. Pigment and Resin Technology, 2009, 38, 33-37.	0.5	39
64	Volatile constituents from the rhizomes of Curcuma haritha Mangaly and Sabu from southern India. Flavour and Fragrance Journal, 2008, 23, 348-352.	1.2	14
65	Natural products as corrosion inhibitor for metals in corrosive media – A review. Materials Letters, 2008, 62, 113-116.	1.3	805
66	Atropine sulphate as corrosion inhibitor for mild steel in sulphuric acid medium. Materials Letters, 2008, 62, 1602-1604.	1.3	56
67	Inhibitive effect of black pepper extract on the sulphuric acid corrosion of mild steel. Materials Letters, 2008, 62, 2977-2979.	1.3	156
68	STUDIES ON THE INHIBITIVE EFFECT OF DATURA STRAMONIUM EXTRACT ON THE ACID CORROSION OF MILD STEEL. Surface Review and Letters, 2007, 14, 1157-1164.	0.5	22
69	Corrosion inhibition of mild steel by Datura metel in acidic medium. Pigment and Resin Technology, 2005, 34, 327-331.	0.5	72
70	Chemical composition and antibacterial activity of the rhizome oil of Hedychium larsenii. Acta Pharmaceutica, 2005, 55, 315-20.	0.9	23
71	Studies on oleoresinous varnishes and their natural precursors. Progress in Organic Coatings, 2004, 49, 244-251.	1.9	4
72	Monoterpenoids from the seeds of Heracleum candolleianum. Fä-toterapÄ-t, 2000, 71, 616-617.	1.1	11