

Namasivayam Dhenadhayalan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

39
papers

792
citations

15
h-index

27
g-index

41
ext. papers

1,002
ext. citations

5.8
avg, IF

4.89
L-index

#	Paper	IF	Citations
39	Improved Oxygen Redox Activity by High-Valent Fe and Co ³⁺ Sites in the Perovskite LaNi _{1-x} Fe _{0.5x} Co _{0.5x} O ₃ . <i>ACS Applied Energy Materials</i> , 2022 , 5, 343-354	6.1	3
38	Study of cholesterol phase effect on the dynamics of DOPC and DPPC small vesicle membranes using single-molecule fluorescence correlation spectroscopy. <i>Journal of Molecular Liquids</i> , 2022 , 353, 118806	6	
37	Synthesis and Photoluminescence Properties of MoS ₂ /Graphene Heterostructure by Liquid-Phase Exfoliation.. <i>ACS Omega</i> , 2022 , 7, 629-637	3.9	1
36	Architecting 3D prism shaped carbon dots/germanium/germanium oxide nanohybrid for photocatalytic degradation of pendimethalin and dinotefuran pesticides. <i>Materials Today Chemistry</i> , 2022 , 24, 100913	6.2	0
35	2D Fluorescence Correlation to Visualize Influence of Size Curvature and Phase Structure of Silica Nanoparticle-Supported Small Unilamellar Vesicle Membrane. <i>Journal of Molecular Liquids</i> , 2021 , 344, 117949	6	1
34	Evanescent wave cavity ring-down spectroscopy based interfacial sensing of prostate-specific antigen. <i>Sensors and Actuators B: Chemical</i> , 2021 , 330, 129284	8.5	4
33	Synergistic dynamics of photoionization and photoinduced electron transfer probed by laser flash photolysis and ultrafast fluorescence spectroscopy. <i>Photochemical and Photobiological Sciences</i> , 2021 , 20, 1109-1124	4.2	0
32	Internet of Things-Enabled Aggregation-Induced Emission Probe for Cu Ions: Comprehensive Investigations and Three-Dimensional Printed Portable Device Design. <i>ACS Omega</i> , 2020 , 5, 32761-32768	3.9	5
31	Photochemically Synthesized Ruthenium Nanoparticle-Decorated Carbon-Dot Nanochains: An Efficient Catalyst for Synergistic Redox Reactions. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13759-13769	9.5	17
30	Computational and Experimental Analysis of Carbon Functional Nanomaterials 2020 , 269-311		
29	Competitive hydrogen bonding influences of fluorophore- urea-adenine system in water: Photophysical and photochemical approaches. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 237, 118409	4.4	2
28	Fluorescence coupled with electrochemical approach at the bulk and the interface region of hydrogen-bonding self assemblies of urea derivatives with DDP dye in aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 229, 117914	4.4	1
27	Recent Advances in Functionalized Carbon Dots toward the Design of Efficient Materials for Sensing and Catalysis Applications. <i>Small</i> , 2020 , 16, e1905767	11	110
26	-Derived Carbon Dots as Nanocarriers to Deliver Methotrexate for Effective Therapy of Cancer Cells.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 8786-8794	4.1	3
25	Fluorescence and quantum mechanical approach on the interaction of amides and their role on the stability and coexistence of the rotamer conformations of L-tryptophan in aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 243, 118791	4.4	2
24	Pyrene-Based Chemosensor for Picric Acid-Fundamentals to Smartphone Device Design. <i>Analytical Chemistry</i> , 2019 , 91, 13244-13250	7.8	25
23	Catalytic Activity of Bimetallic (Ruthenium/Palladium) Nano-alloy Decorated Porous Carbons Toward Reduction of Toxic Compounds. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 2662-2675	4.5	19

22	Pyrene-based prospective biomaterial: In vitro bioimaging, protein binding studies and detection of bilirubin and Fe. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 221, 117150-117156	4.4	15
21	Multifunctional Nanohybrid of Palladium Nanoparticles Encapsulated by Carbon-Dots for Exploiting Synergetic Applications. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900361	4.6	5
20	Fluorescence turn-on chemosensors based on surface-functionalized MoS ₂ quantum dots. <i>Sensors and Actuators B: Chemical</i> , 2019 , 281, 659-669	8.5	19
19	Multisensing Capability of MoSe ₂ Quantum Dots by Tuning Surface Functional Groups. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3453-3463	5.6	17
18	Aptamer-based fluorogenic sensing of interferon-gamma probed with ReS ₂ and TiS ₂ nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2018 , 258, 929-936	8.5	16
17	Highly sensitive fluorogenic sensing of L-Cysteine in live cells using gelatin-stabilized gold nanoparticles decorated graphene nanosheets. <i>Sensors and Actuators B: Chemical</i> , 2018 , 259, 339-346	8.5	40
16	Metal Nanoparticles Anchored on Rhenium Disulfide Nanosheets as Catalysts for the Reduction of Aromatic Nitro Compounds. <i>ChemNanoMat</i> , 2018 , 4, 1262-1269	3.5	4
15	Silver Nanoparticles Modified Graphitic Carbon Nitride Nanosheets as a Significant Bifunctional Material for Practical Applications. <i>ChemistrySelect</i> , 2017 , 2, 1398-1408	1.8	10
14	AIE Nanodots Obtained from a Pyrene Schiff Base and Their Applications. <i>ChemistrySelect</i> , 2017 , 2, 1353-1359	1.8	10
13	3D Probed Lipid Dynamics in Small Unilamellar Vesicles. <i>Small</i> , 2017 , 13, 1603408	11	8
12	Photophysical studies of a food hydrocolloid, Gum Arabic with resorcinol based acridinedione dyes in water. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 341, 78-86	4.7	10
11	Ultra-sensitive DNA sensing of a prostate-specific antigen based on 2D nanosheets in live cells. <i>Nanoscale</i> , 2017 , 9, 12087-12095	7.7	26
10	Light-Controlled Photochemical Synthesis of Gelatin-Capped Gold Nanoparticles for Spectral Activity and Electro-oxidation of Quercetin. <i>ChemElectroChem</i> , 2017 , 4, 2842-2851	4.3	7
9	Silicon Quantum Dot-Based Fluorescence Turn-On Metal Ion Sensors in Live Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 23953-62	9.5	39
8	Unravelling the Multiple Emissive States in Citric-Acid-Derived Carbon Dots. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 1252-1261	3.8	187
7	Highly stable ruthenium nanoparticles on 3D mesoporous carbon: an excellent opportunity for reduction reactions. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23448-23457	13	34
6	Metal ion induced fluorescence resonance energy transfer between crown ether functionalized quantum dots and rhodamine B: selectivity of K ⁺ ion. <i>RSC Advances</i> , 2015 , 5, 4926-4933	3.7	8
5	Chemically induced fluorescence switching of carbon-dots and its multiple logic gate implementation. <i>Scientific Reports</i> , 2015 , 5, 10012	4.9	78

4	Fluorescence spectral studies of Gum Arabic: Multi-emission of Gum Arabic in aqueous solution. <i>Journal of Luminescence</i> , 2014 , 155, 322-329	3.8	9
3	Ligand-dependent transient absorption studies of hybrid polymer:CdSe quantum dot composites. <i>Solar Energy Materials and Solar Cells</i> , 2012 , 100, 6-15	6.4	41
2	Role of photoionization on the dynamics and mechanism of photoinduced electron transfer reaction of coumarin 307 in micelles. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 4908-20	3.4	18
1	Photoionization and time-dependent stokes shift of coumarin 307 in soft matter: solvation and radical-ion pair recombination dynamics. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 10892-902	3.4	10