Namasivayam Dhenadhayalan

List of Publications by Citations

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	Unravelling the Multiple Emissive States in Citric-Acid-Derived Carbon Dots. *Journal of Physical Chemistry C*, **2016**, 120, 1252-1261	3.8	187
38	Recent Advances in Functionalized Carbon Dots toward the Design of Efficient Materials for Sensing and Catalysis Applications. *Small*, **2020**, 16, e1905767	11	110
37	Chemically induced fluorescence switching of carbon-dots and its multiple logic gate implementation. *Scientific Reports*, **2015**, 5, 10012	4.9	78
36	Ligand-dependent transient absorption studies of hybrid polymer:CdSe quantum dot composites. *Solar Energy Materials and Solar Cells*, **2012**, 100, 6-15	6.4	41
35	Highly sensitive fluorogenic sensing of L-Cysteine in live cells using gelatin-stabilized gold nanoparticles decorated graphene nanosheets. *Sensors and Actuators B: Chemical*, **2018**, 259, 339-346	8.5	40
34	Silicon Quantum Dot-Based Fluorescence Turn-On Metal Ion Sensors in Live Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 23953-62	9.5	39
33	Highly stable ruthenium nanoparticles on 3D mesoporous carbon: an excellent opportunity for reduction reactions. *Journal of Materials Chemistry A*, **2015**, 3, 23448-23457	13	34
32	Ultra-sensitive DNA sensing of a prostate-specific antigen based on 2D nanosheets in live cells. *Nanoscale*, **2017**, 9, 12087-12095	7.7	26
31	Pyrene-Based Chemosensor for Picric Acid-Fundamentals to Smartphone Device Design. *Analytical Chemistry*, **2019**, 91, 13244-13250	7.8	25
30	Catalytic Activity of Bimetallic (Ruthenium/Palladium) Nano-alloy Decorated Porous Carbons Toward Reduction of Toxic Compounds. *Chemistry - an Asian Journal*, **2019**, 14, 2662-2675	4.5	19
29	Fluorescence turn-on chemosensors based on surface-functionalized MoS2 quantum dots. *Sensors and Actuators B: Chemical*, **2019**, 281, 659-669	8.5	19
28	Role of photoionization on the dynamics and mechanism of photoinduced electron transfer reaction of coumarin 307 in micelles. *Journal of Physical Chemistry B*, **2012**, 116, 4908-20	3.4	18
27	Multisensing Capability of MoSe2 Quantum Dots by Tuning Surface Functional Groups. *ACS Applied Nano Materials*, **2018**, 1, 3453-3463	5.6	17
26	Aptamer-based fluorogenic sensing of interferon-gamma probed with ReS2 and TiS2 nanosheets. *Sensors and Actuators B: Chemical*, **2018**, 258, 929-936	8.5	16
25	Pyrene-based prospective biomaterial: In vitro bioimaging, protein binding studies and detection of bilirubin and Fe. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 221, 117150	4.4	15
24	Silver Nanoparticles Modified Graphitic Carbon Nitride Nanosheets as a Significant Bifunctional Material for Practical Applications. *ChemistrySelect*, **2017**, 2, 1398-1408	1.8	10
23	AIE Nanodots Obtained from a Pyrene Schiff Base and Their Applications. *ChemistrySelect*, **2017**, 2, 1353-1359	1.8	10

22	Photophysical studies of a food hydrocolloid, Gum Arabic with resorcinol based acridinedione dyes in water. *Journal of Photochemistry and Photobiology A: Chemistry*, **2017**, 341, 78-86	4.7	10
21	Photoionization and time-dependent stokes shift of coumarin 307 in soft matter: solvation and radical-ion pair recombination dynamics. *Journal of Physical Chemistry B*, **2011**, 115, 10892-902	3.4	10
20	Fluorescence spectral studies of Gum Arabic: Multi-emission of Gum Arabic in aqueous solution. *Journal of Luminescence*, **2014**, 155, 322-329	3.8	9
19	3D Probed Lipid Dynamics in Small Unilamellar Vesicles. *Small*, **2017**, 13, 1603408	11	8
18	Metal ion induced fluorescence resonance energy transfer between crown ether functionalized quantum dots and rhodamine B: selectivity of K+ ion. *RSC Advances*, **2015**, 5, 4926-4933	3.7	8
17	Light-Controlled Photochemical Synthesis of Gelatin-Capped Gold Nanoparticles for Spectral Activity and Electro-oxidation of Quercetin. *ChemElectroChem*, **2017**, 4, 2842-2851	4.3	7
16	Multifunctional Nanohybrid of Palladium Nanoparticles Encapsulated by Carbon-Dots for Exploiting Synergetic Applications. *Advanced Materials Interfaces*, **2019**, 6, 1900361	4.6	5
15	Internet of Things-Enabled Aggregation-Induced Emission Probe for Cu Ions: Comprehensive Investigations and Three-Dimensional Printed Portable Device Design. *ACS Omega*, **2020**, 5, 32761-32768	3.9	5
14	Photochemically Synthesized Ruthenium Nanoparticle-Decorated Carbon-Dot Nanochains: An Efficient Catalyst for Synergistic Redox Reactions. *ACS Applied Materials & Interfaces*, **2020**, 12, 13759-13769	9.5	4
13	Evanescent wave cavity ring-down spectroscopy based interfacial sensing of prostate-specific antigen. *Sensors and Actuators B: Chemical*, **2021**, 330, 129284	8.5	4
12	Metal Nanoparticles Anchored on Rhenium Disulfide Nanosheets as Catalysts for the Reduction of Aromatic Nitro Compounds. *ChemNanoMat*, **2018**, 4, 1262-1269	3.5	4
11	Improved Oxygen Redox Activity by High-Valent Fe and Co3+ Sites in the Perovskite LaNi1−xFe0.5xCo0.5xO3. *ACS Applied Energy Materials*, **2022**, 5, 343-354	6.1	3
10	-Derived Carbon Dots as Nanocarriers to Deliver Methotrexate for Effective Therapy of Cancer Cells.. *ACS Applied Bio Materials*, **2020**, 3, 8786-8794	4.1	3
9	Competitive hydrogen bonding influences of fluorophore- urea-adenine system in water: Photophysical and photochemical approaches. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 237, 118409	4.4	2
8	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. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 243, 118791	4.4	2
7	2D Fluorescence Correlation to Visualize Influence of Size Curvature and Phase Structure of Silica Nanoparticle-Supported Small Unilamellar Vesicle Membrane. *Journal of Molecular Liquids*, **2021**, 344, 117949	6	1
6	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. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 229, 117914	4.4	1
5	Synthesis and Photoluminescence Properties of MoS/Graphene Heterostructure by Liquid-Phase Exfoliation.. *ACS Omega*, **2022**, 7, 629-637	3.9	1

4	Synergistic dynamics of photoionization and photoinduced electron transfer probed by laser flash photolysis and ultrafast fluorescence spectroscopy. *Photochemical and Photobiological Sciences*, **2021**, 20, 1109-1124	4.2	0
3	Architecting 3D prism shaped carbon dots/germanium/germanium oxide nanohybrid for photocatalytic degradation of pendimethalin and dinotefuran pesticides. *Materials Today Chemistry* , **2022**, 24, 100913	6.2	0
2	Computational and Experimental Analysis of Carbon Functional Nanomaterials **2020**, 269-311		
1	Study of cholesterol phase effect on the dynamics of DOPC and DPPC small vesicle membranes using single-molecule fluorescence correlation spectroscopy. *Journal of Molecular Liquids*, **2022**, 353, 118806	6	