Subramanian Tamil Selvan

List of Publications by Year
in descending order

73 papers	5,464 citations	109321 35 h-index	85541 71 g-index
75 all docs	75 docs citations	75 times ranked	7793 citing authors

#	Article	IF	Citations
1	Silica-Coated Nanocomposites of Magnetic Nanoparticles and Quantum Dots. Journal of the American Chemical Society, 2005, 127, 4990-4991.	13.7	805
2	Synthesis of Silica-Coated Semiconductor and Magnetic Quantum Dots and Their Use in the Imaging of Live Cells. Angewandte Chemie - International Edition, 2007, 46, 2448-2452.	13.8	476
3	Robust, Non-Cytotoxic, Silica-Coated CdSe Quantum Dots with Efficient Photoluminescence. Advanced Materials, 2005, 17, 1620-1625.	21.0	459
4	Field enhancement effect of small Ag particles on the fluorescence from Eu3+-doped SiO2 glass. Applied Physics Letters, 1999, 74, 1513-1515.	3.3	313
5	Functional and Multifunctional Nanoparticles for Bioimaging and Biosensing. Langmuir, 2010, 26, 11631-11641.	3.5	295
6	Gold-Polypyrrole Core-Shell Particles in Diblock Copolymer Micelles. Advanced Materials, 1998, 10, 132-134.	21.0	236
7	Remarkable Influence of Silver Islands on the Enhancement of Fluorescence from Eu3+ Ion-Doped Silica Gels. Journal of Physical Chemistry B, 1999, 103, 7064-7067.	2.6	165
8	Multifunctional Iron Oxide Nanoparticles for Diagnostics, Therapy and Macromolecule Delivery. Theranostics, 2013, 3, 986-1003.	10.0	160
9	Gadolinium Oxide Ultranarrow Nanorods as Multimodal Contrast Agents for Optical and Magnetic Resonance Imaging. Langmuir, 2010, 26, 8959-8965.	3.5	158
10	Mushroom-Derived Carbon Dots for Toxic Metal Ion Detection and as Antibacterial and Anticancer Agents. ACS Applied Nano Materials, 2020, 3, 5910-5919.	5.0	146
11	Size Control, Shape Evolution, and Silica Coating of Near-Infrared-Emitting PbSe Quantum Dots. Chemistry of Materials, 2007, 19, 3112-3117.	6.7	130
12	Engineering nanoparticle strategies for effective cancer immunotherapy. Biomaterials, 2018, 178, 597-607.	11.4	117
13	Block Copolymer Mediated Synthesis of Gold Quantum Dots and Novel Goldâ^'Polypyrrole Nanocomposites. Journal of Physical Chemistry B, 1999, 103, 7441-7448.	2.6	115
14	Enhanced fluorescence from Eu3+ owing to surface plasma oscillation of silver particles in glass. Journal of Non-Crystalline Solids, 1999, 259, 16-22.	3.1	102
15	Theranostic applications of nanoparticles in neurodegenerative disorders. International Journal of Nanomedicine, 2018, Volume 13, 5561-5576.	6.7	102
16	Design and Synthesis of Polymer-Functionalized NIR Fluorescent Dyesâ€“Magnetic Nanoparticles for Bioimaging. ACS Nano, 2013, 7, 6796-6805.	14.6	98
17	Bimodal magneticâ€“fluorescent probes for bioimaging. Microscopy Research and Technique, 2011, 74, 563-576.	2.2	83
18	Single-Phase Dy₂O₃:Tb³⁺Nanocrystals as Dual-Modal Contrast Agent for High Field Magnetic Resonance and Optical Imaging. Chemistry of Materials, 2011, 23, 2439-2446.	6.7	76

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19	Solâ^'Gel Derived Gold Nanoclusters in Silica Glass Possessing Large Optical Nonlinearities. Journal of Physical Chemistry B, 2002, 106, 10157-10162.	2.6	73
20	Supramolecular nanoparticle carriers self-assembled from cyclodextrin- and adamantane-functionalized polyacrylates for tumor-targeted drug delivery. Journal of Materials Chemistry B, 2014, 2, 1879.	5.8	73
21	MicroRNAs -the Next Generation Therapeutic Targets in Human Diseases. Theranostics, 2013, 3, 930-942.	10.0	68
22	Core â€“ shell upconversion nanoparticle â€“ semiconductor heterostructures for photodynamic therapy. Scientific Reports, 2015, 5, 8252.	3.3	65
23	Silica-coated quantum dots and magnetic nanoparticles for bioimaging applications (Mini-Review). Biointerphases, 2010, 5, FA110-FA115.	1.6	63
24	Interaction of stable colloidal nanoparticles with cellular membranes. Biotechnology Advances, 2014, 32, 679-692.	11.7	62
25	Facile Synthesis of Fe₂O₃ Nanocrystals without Fe(CO)₅ Precursor and Oneâ€Pot Synthesis of Highly Fluorescent Fe₂O₃â€“CdSe Nanocomposites. Advanced Materials, 2009, 21, 869-873.	21.0	57
26	Enhanced fluorescence from Eu3+-doped silica gels by adsorbed CdS nanoparticles. Journal of Non-Crystalline Solids, 2001, 291, 137-141.	3.1	50
27	Recent progress in nanotechnology for stem cell differentiation, labeling, tracking and therapy. Journal of Materials Chemistry B, 2017, 5, 9429-9451.	5.8	49
28	Formation of Luminescent CdTeâ€“Silica Nanoparticles through an Inverse Microemulsion Technique. Chemistry Letters, 2004, 33, 434-435.	1.3	48
29	Langmuirâ^'Blodgett Thin Films of Quantum Dots: Synthesis, Surface Modification, and Fluorescence Resonance Energy Transfer (FRET) Studies. Langmuir, 2008, 24, 8181-8186.	3.5	47
30	Synthesis of crystalline polyaniline. Materials Research Bulletin, 1995, 30, 699-705.	5.2	46
31	â€œSmartâ€•theranostic lanthanide nanoprobes with simultaneous up-conversion fluorescence and tunable T₁â€“T₂ magnetic resonance imaging contrast and near-infrared activated photodynamic therapy. Nanoscale, 2014, 6, 12609-12617.	5.6	46
32	A facile solâ€“gel method for the encapsulation of gold nanoclusters in silica gels and their optical properties. Journal of Non-Crystalline Solids, 1999, 255, 254-258.	3.1	45
33	Synthesis of antibacterial and magnetic nanocomposites by decorating graphene oxide surface with metal nanoparticles. RSC Advances, 2015, 5, 76442-76450.	3.6	41
34	Chlorhexidine Nanocapsule Drug Delivery Approach to the Resin-Dentin Interface. Journal of Dental Research, 2016, 95, 1065-1072.	5.2	38
35	Mimicking cellular transport mechanism in stem cells through endosomal escape of new peptide-coated quantum dots. Scientific Reports, 2013, 3, 2184.	3.3	37
36	A dual responsive â€œturn-onâ€•fluorophore for orthogonal selective sensing of biological thiols and hydrogen peroxide. Journal of Materials Chemistry C, 2016, 4, 2761-2774.	5.5	34

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37	Crystalline order in polyaniline. Journal of Materials Science Letters, 1995, 14, 1594-1596.	0.5	30
38	Energy Transfer Between Eu3+ Ions and CdS Quantum Dots in Sol-Gel Derived CdS/SiO2 : Eu3+ Gel. Journal of Sol-Gel Science and Technology, 2000, 19, 779-783.	2.4	30
39	â€œTurn-onâ€•fluorescence probe integrated polymer nanoparticles for sensing biological thiol molecules. Scientific Reports, 2014, 4, 7057.	3.3	30
40	Influence of adsorbed CdS nanoparticles on 5D0â†'7FJ emissions in Eu3+-doped silica gel. Journal of Luminescence, 2000, 87-89, 532-534.	3.1	28
41	Gadolinium-based bimodal probes to enhance T1-Weighted magnetic resonance/optical imaging. Acta Biomaterialia, 2020, 110, 15-36.	8.3	28
42	Grafting of ZnS:Mnâ€Doped Nanocrystals and an Anticancer Drug onto Graphene Oxide for Delivery and Cell Labeling. ChemPlusChem, 2016, 81, 100-107.	2.8	26
43	Proanthocyanidins-Loaded Nanoparticles Enhance Dentin Degradation Resistance. Journal of Dental Research, 2017, 96, 780-789.	5.2	24
44	Silica-Coated Mn-Doped ZnS Nanocrystals for Cancer Theranostics. ACS Applied Nano Materials, 2020, 3, 3088-3096.	5.0	23
45	Synthesis of polyparaphenylene by electropolymerization in microemulsion mediumâ€"morphology and crystalline character. Journal of Electroanalytical Chemistry, 1995, 384, 183-186.	3.8	19
46	Polymer-protected gold clusters in silica glass. Materials Letters, 1998, 37, 156-161.	2.6	19
47	Mineralization of gold in block copolymer micelles. Macromolecular Symposia, 1997, 117, 207-218.	0.7	18
48	Novel Gold-polypyrrole Anisotropic Colloids: a TEM Investigation. Journal of Materials Science Letters, 1998, 17, 1385-1388.	0.5	18
49	Frequency dependence on the accuracy of electrical impedance spectroscopy measurements in microfluidic devices. Journal of Micromechanics and Microengineering, 2010, 20, 022001.	2.6	18
50	Microemulsion-based electrosynthesis of polyparaphenylene. Journal of the Chemical Society Chemical Communications, 1993, , 179.	2.0	17
51	Highly Luminescent Heterostructured Copperâ€Doped Zinc Sulfide Nanocrystals for Application in Cancer Cell Labeling. ChemPhysChem, 2016, 17, 2489-2495.	2.1	17
52	Experimental and Theoretical Structural Characterization of Cuâ€"Au Tripods for Photothermal Anticancer Therapy. ACS Applied Nano Materials, 2019, 2, 3735-3742.	5.0	17
53	Doxorubicin-Conjugated Platinum Theranostic Nanoparticles Induce Apoptosis via Inhibition of a Cell Survival (PI3K/AKT) Signaling Pathway in Human Breast Cancer Cells. ACS Applied Nano Materials, 2021, 4, 198-210.	5.0	14
54	Synthesis of Smallâ€Sized, Porous, and Lowâ€Toxic Magnetite Nanoparticles by Thin POSS Silica Coating. Chemistry - A European Journal, 2015, 21, 3914-3918.	3.3	13

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55	Seed-mediated synthesis, properties and application of Î³-Fe2O3â€“CdSe magnetic quantum dots. Journal of Solid State Chemistry, 2011, 184, 2150-2158.	2.9	12
56	Solid state structural aspects of electrochemically prepared poly (p -phenylene) thin films - crystalline order and spherulite morphology. Journal of Solid State Electrochemistry, 1998, 2, 242-246.	2.5	11
57	Nanotechnology-Based Diagnostics and Therapy for Pathogen-Related Infections in the CNS. ACS Chemical Neuroscience, 2020, 11, 2371-2377.	3.5	10
58	Gold-Nanorod-Based Scaffolds for Wound-Healing Applications. ACS Applied Nano Materials, 2022, 5, 8640-8648.	5.0	9
59	Recent advances in biocompatible semiconductor nanocrystals for immunobiological applications. Colloids and Surfaces B: Biointerfaces, 2017, 159, 644-654.	5.0	8
60	Coordination chemistry of ligands: Insights into the design of amyloid beta/tau-PET imaging probes and nanoparticles-based therapies for Alzheimerâ€™s disease. Coordination Chemistry Reviews, 2021, 430, 213659.	18.8	8
61	Effect of iron addition to the cadmium electrode. Journal of Power Sources, 1990, 32, 55-62.	7.8	6
62	Synthesis and application of polyacrylic acid-based nanoparticles for photodynamic therapy. Journal of Controlled Release, 2015, 213, e20-e21.	9.9	6
63	Introduction to Nanotheranostics. SpringerBriefs in Applied Sciences and Technology, 2016, , .	0.4	5
64	Studies on the generation of polyaniline microstructures using microemulsion polymerization. Journal of Materials Science Letters, 1998, 17, 385-387.	0.5	3
65	An Antiâ€Clogging 3D Porous Membrane for Sorting and Patterning of Microâ€Entities. Advanced Healthcare Materials, 2012, 1, 354-359.	7.6	3
66	Fluorescence Retrieval of CdSe Quantum Dots by Selfâ€Assembly of Supramolecular Aggregates of Reverse Micelles. Small, 2015, 11, 2619-2623.	10.0	3
67	Introduction to Nanotheranostics. SpringerBriefs in Applied Sciences and Technology, 2016, , 1-6.	0.4	3
68	Multifunctional fluorescent and magnetic nanoparticles for biomedical applications. , 2012, , .		2
69	Enzyme-Free Multiplex Detection of Foodborne Pathogens Using Au Nanoparticles-Decorated Multiwalled Carbon Nanotubes. ACS Food Science & Technology, 2021, 1, 1236-1246.	2.7	2
70	Metallic Nanoparticles for Theranostics. SpringerBriefs in Applied Sciences and Technology, 2016, , 7-20.	0.4	2
71	Synthesis and applications of quantum dots and magnetic quantum dots. Proceedings of SPIE, 2008, , .	0.8	1
72	Magnetic Nanoparticles. SpringerBriefs in Applied Sciences and Technology, 2016, , 31-68.	0.4	1

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73	Synthesis and characterization of fluorescent dyes-magnetic nanoparticles for bioimaging applications. Proceedings of SPIE, 2012, , .	0.8	0