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	Gold-Nanorod-Based Scaffolds for Wound-Healing Applications. ACS Applied Nano Materials, 2022, 5, 8640-8648.	5.0	9
2	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
3	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
4	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
5	Nanotechnology-Based Diagnostics and Therapy for Pathogen-Related Infections in the CNS. ACS Chemical Neuroscience, 2020, 11, 2371-2377.	3.5	10
6	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
7	Silica-Coated Mn-Doped ZnS Nanocrystals for Cancer Theranostics. ACS Applied Nano Materials, 2020, 3, 3088-3096.	5.0	23
8	Gadolinium-based bimodal probes to enhance T1-Weighted magnetic resonance/optical imaging. Acta Biomaterialia, 2020, 110, 15-36.	8.3	28
9	Experimental and Theoretical Structural Characterization of Cuâ€“Au Tripods for Photothermal Anticancer Therapy. ACS Applied Nano Materials, 2019, 2, 3735-3742.	5.0	17
10	Engineering nanoparticle strategies for effective cancer immunotherapy. Biomaterials, 2018, 178, 597-607.	11.4	117
11	Theranostic applications of nanoparticles in neurodegenerative disorders. International Journal of Nanomedicine, 2018, Volume 13, 5561-5576.	6.7	102
12	Proanthocyanidins-Loaded Nanoparticles Enhance Dentin Degradation Resistance. Journal of Dental Research, 2017, 96, 780-789.	5.2	24
13	Recent advances in biocompatible semiconductor nanocrystals for immunobiological applications. Colloids and Surfaces B: Biointerfaces, 2017, 159, 644-654.	5.0	8
14	Recent progress in nanotechnology for stem cell differentiation, labeling, tracking and therapy. Journal of Materials Chemistry B, 2017, 5, 9429-9451.	5.8	49
15	Highly Luminescent Heterostructured Copperâ€Doped Zinc Sulfide Nanocrystals for Application in Cancer Cell Labeling. ChemPhysChem, 2016, 17, 2489-2495.	2.1	17
16	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
17	Chlorhexidine Nanocapsule Drug Delivery Approach to the Resin-Dentin Interface. Journal of Dental Research, 2016, 95, 1065-1072.	5.2	38
18	Introduction to Nanotheranostics. SpringerBriefs in Applied Sciences and Technology, 2016, , 1-6.	0.4	3

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19	Magnetic Nanoparticles. SpringerBriefs in Applied Sciences and Technology, 2016, , 31-68.	0.4	1
20	Introduction to Nanotheranostics. SpringerBriefs in Applied Sciences and Technology, 2016, , .	0.4	5
21	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
22	Metallic Nanoparticles for Theranostics. SpringerBriefs in Applied Sciences and Technology, 2016, , 7-20.	0.4	2
23	Synthesis and application of polyacrylic acid-based nanoparticles for photodynamic therapy. Journal of Controlled Release, 2015, 213, e20-e21.	9.9	6
24	Core â€“ shell upconversion nanoparticle â€“ semiconductor heterostructures for photodynamic therapy. Scientific Reports, 2015, 5, 8252.	3.3	65
25	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
26	Fluorescence Retrieval of CdSe Quantum Dots by Selfâ€Assembly of Supramolecular Aggregates of Reverse Micelles. Small, 2015, 11, 2619-2623.	10.0	3
27	Synthesis of antibacterial and magnetic nanocomposites by decorating graphene oxide surface with metal nanoparticles. RSC Advances, 2015, 5, 76442-76450.	3.6	41
28	Interaction of stable colloidal nanoparticles with cellular membranes. Biotechnology Advances, 2014, 32, 679-692.	11.7	62
29	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
30	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
31	â€œTurn-onâ€•fluorescence probe integrated polymer nanoparticles for sensing biological thiol molecules. Scientific Reports, 2014, 4, 7057.	3.3	30
32	Design and Synthesis of Polymer-Functionalized NIR Fluorescent Dyesâ€“Magnetic Nanoparticles for Bioimaging. ACS Nano, 2013, 7, 6796-6805.	14.6	98
33	Mimicking cellular transport mechanism in stem cells through endosomal escape of new peptide-coated quantum dots. Scientific Reports, 2013, 3, 2184.	3.3	37
34	Multifunctional Iron Oxide Nanoparticles for Diagnostics, Therapy and Macromolecule Delivery. Theranostics, 2013, 3, 986-1003.	10.0	160
35	MicroRNAs -the Next Generation Therapeutic Targets in Human Diseases. Theranostics, 2013, 3, 930-942.	10.0	68
36	Multifunctional fluorescent and magnetic nanoparticles for biomedical applications. , 2012, , .		2

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37	An Antiâ€Clogging 3D Porous Membrane for Sorting and Patterning of Microâ€Entities. Advanced Healthcare Materials, 2012, 1, 354-359.	7.6	3
38	Synthesis and characterization of fluorescent dyes-magnetic nanoparticles for bioimaging applications. Proceedings of SPIE, 2012, , .	0.8	0
39	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
40	Bimodal magneticâ€“fluorescent probes for bioimaging. Microscopy Research and Technique, 2011, 74, 563-576.	2.2	83
41	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
42	Frequency dependence on the accuracy of electrical impedance spectroscopy measurements in microfluidic devices. Journal of Micromechanics and Microengineering, 2010, 20, 022001.	2.6	18
43	Functional and Multifunctional Nanoparticles for Bioimaging and Biosensing. Langmuir, 2010, 26, 11631-11641.	3.5	295
44	Silica-coated quantum dots and magnetic nanoparticles for bioimaging applications (Mini-Review). Biointerphases, 2010, 5, FA110-FA115.	1.6	63
45	Gadolinium Oxide Ultranarrow Nanorods as Multimodal Contrast Agents for Optical and Magnetic Resonance Imaging. Langmuir, 2010, 26, 8959-8965.	3.5	158
46	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
47	Synthesis and applications of quantum dots and magnetic quantum dots. Proceedings of SPIE, 2008, , .	0.8	1
48	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
49	Size Control, Shape Evolution, and Silica Coating of Near-Infrared-Emitting PbSe Quantum Dots. Chemistry of Materials, 2007, 19, 3112-3117.	6.7	130
50	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
51	Silica-Coated Nanocomposites of Magnetic Nanoparticles and Quantum Dots. Journal of the American Chemical Society, 2005, 127, 4990-4991.	13.7	805
52	Robust, Non-Cytotoxic, Silica-Coated CdSe Quantum Dots with Efficient Photoluminescence. Advanced Materials, 2005, 17, 1620-1625.	21.0	459
53	Formation of Luminescent CdTeâ€“Silica Nanoparticles through an Inverse Microemulsion Technique. Chemistry Letters, 2004, 33, 434-435.	1.3	48
54	Solâ€’Gel Derived Gold Nanoclusters in Silica Glass Possessing Large Optical Nonlinearities. Journal of Physical Chemistry B, 2002, 106, 10157-10162.	2.6	73

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55	Enhanced fluorescence from Eu3+-doped silica gels by adsorbed CdS nanoparticles. Journal of Non-Crystalline Solids, 2001, 291, 137-141.	3.1	50
56	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
57	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
58	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
59	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
60	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
61	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
62	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
63	Studies on the generation of polyaniline microstructures using microemulsion polymerization. Journal of Materials Science Letters, 1998, 17, 385-387.	0.5	3
64	Novel Gold-polypyrrole Anisotropic Colloids: a TEM Investigation. Journal of Materials Science Letters, 1998, 17, 1385-1388.	0.5	18
65	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
66	Polymer-protected gold clusters in silica glass. Materials Letters, 1998, 37, 156-161.	2.6	19
67	Gold-Polypyrrole Core-Shell Particles in Diblock Copolymer Micelles. Advanced Materials, 1998, 10, 132-134.	21.0	236
68	Mineralization of gold in block copolymer micelles. Macromolecular Symposia, 1997, 117, 207-218.	0.7	18
69	Crystalline order in polyaniline. Journal of Materials Science Letters, 1995, 14, 1594-1596.	0.5	30
70	Synthesis of polyparaphenylene by electropolymerization in microemulsion mediumâ€"morphology and crystalline character. Journal of Electroanalytical Chemistry, 1995, 384, 183-186.	3.8	19
71	Synthesis of crystalline polyaniline. Materials Research Bulletin, 1995, 30, 699-705.	5.2	46
72	Microemulsion-based electrosynthesis of polyparaphenylene. Journal of the Chemical Society Chemical Communications, 1993, , 179.	2.0	17

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73	Effect of iron addition to the cadmium electrode. Journal of Power Sources, 1990, 32, 55-62.	7.8	6