

Madhappan Santha Moorthy

List of Publications by Year in descending order

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49
papers

2,293
citations

126708

33
h-index

214527

47
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50
all docs

50
docs citations

50
times ranked

3467
citing authors

#	ARTICLE	IF	CITATIONS
1	Periodic mesoporous organosilicas for advanced applications. <i>NPG Asia Materials</i> , 2014, 6, e96-e96.	3.8	163
2	Hydroxyapatite Coated Iron Oxide Nanoparticles: A Promising Nanomaterial for Magnetic Hyperthermia Cancer Treatment. <i>Nanomaterials</i> , 2017, 7, 426.	1.9	105
3	Multimodal tumor-homing chitosan oligosaccharide-coated biocompatible palladium nanoparticles for photo-based imaging and therapy. <i>Scientific Reports</i> , 2018, 8, 500.	1.6	102
4	Optimized Zn-doped hydroxyapatite/doxorubicin bioceramics system for efficient drug delivery and tissue engineering application. <i>Ceramics International</i> , 2018, 44, 6062-6071.	2.3	89
5	Magnetic hydroxyapatite: a promising multifunctional platform for nanomedicine application. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 8389-8410.	3.3	79
6	Multifunctional biocompatible chitosan-poly pyrrole nanocomposites as novel agents for photoacoustic imaging-guided photothermal ablation of cancer. <i>Scientific Reports</i> , 2017, 7, 43593.	1.6	75
7	Marine natural pigments as potential sources for therapeutic applications. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 745-761.	5.1	69
8	Chitosan/fucoidan multilayer coating of gold nanorods as highly efficient near-infrared photothermal agents for cancer therapy. <i>Carbohydrate Polymers</i> , 2019, 211, 360-369.	5.1	68
9	Nano-hydroxyapatite bioactive glass composite scaffold with enhanced mechanical and biological performance for tissue engineering application. <i>Ceramics International</i> , 2018, 44, 15735-15746.	2.3	65
10	Biomimetic synthesis of metal-oxo-hydroxyapatite (Au-HAp, Ag-HAp, Au-Ag-HAp): Structural analysis, spectroscopic characterization and biomedical application. <i>Ceramics International</i> , 2018, 44, 20490-20500.	2.3	64
11	Magnetic hyperthermia and pH-responsive effective drug delivery to the sub-cellular level of human breast cancer cells by modified CoFe ₂ O ₄ nanoparticles. <i>Biochimie</i> , 2017, 133, 7-19.	1.3	63
12	Chlorin e6 conjugated silica nanoparticles for targeted and effective photodynamic therapy. <i>Photodiagnosis and Photodynamic Therapy</i> , 2017, 19, 212-220.	1.3	63
13	Step-up synthesis of amidoxime-functionalised periodic mesoporous organosilicas with an amphoteric ligand in the framework for drug delivery. <i>Journal of Materials Chemistry</i> , 2012, 22, 9100.	6.7	61
14	Rapid microwave-assisted synthesis of gold loaded hydroxyapatite collagen nano-bio materials for drug delivery and tissue engineering application. <i>Ceramics International</i> , 2019, 45, 2977-2988.	2.3	61
15	Magnetic mesoporous silica hybrid nanoparticles for highly selective boron adsorption. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12485.	5.2	59
16	Comparative characterization of biogenic and chemical synthesized hydroxyapatite biomaterials for potential biomedical application. <i>Materials Chemistry and Physics</i> , 2019, 228, 344-356.	2.0	58
17	In Vitro Photodynamic Effect of Phycocyanin against Breast Cancer Cells. <i>Molecules</i> , 2016, 21, 1470.	1.7	55
18	Anti-EGFR Antibody Conjugation of Fucoidan-Coated Gold Nanorods as Novel Photothermal Ablation Agents for Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 14633-14646.	4.0	55

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19	Photo-based PDT/PTT dual model killing and imaging of cancer cells using phycocyanin-polypyrrole nanoparticles. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 123, 20-30.	2.0	53
20	Photoacoustic Imaging-Guided Photothermal Therapy with Tumor-Targeting HA-FeOOH@PPy Nanorods. <i>Scientific Reports</i> , 2018, 8, 8809.	1.6	53
21	Fucoidan-coated CuS nanoparticles for chemo-and photothermal therapy against cancer. <i>Oncotarget</i> , 2018, 9, 12649-12661.	0.8	48
22	Marine Biopolymer-Based Nanomaterials as a Novel Platform for Theranostic Applications. <i>Polymer Reviews</i> , 2017, 57, 631-667.	5.3	45
23	Design of a Novel Mesoporous Organosilica Hybrid Microcarrier: a pH Stimuli-Responsive Dual-Drug-Delivery Vehicle for Intracellular Delivery of Anticancer Agents. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 1044-1055.	1.2	41
24	Periodic mesoporous organosilica (PMO) for catalytic applications. <i>Korean Journal of Chemical Engineering</i> , 2014, 31, 1707-1719.	1.2	41
25	Prussian blue decorated mesoporous silica hybrid nanocarriers for photoacoustic imaging-guided synergistic chemo-photothermal combination therapy. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5220-5233.	2.9	40
26	A multifunctional near-infrared laser-triggered drug delivery system using folic acid conjugated chitosan oligosaccharide encapsulated gold nanorods for targeted chemo-photothermal therapy. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3811-3825.	2.9	40
27	Polypyrrole-methylene blue nanoparticles as a single multifunctional nanopatform for near-infrared photo-induced therapy and photoacoustic imaging. <i>RSC Advances</i> , 2017, 7, 35027-35037.	1.7	39
28	Fucoidan-coated core-shell magnetic mesoporous silica nanoparticles for chemotherapy and magnetic hyperthermia-based thermal therapy applications. <i>New Journal of Chemistry</i> , 2017, 41, 15334-15346.	1.4	39
29	Biocompatible Chitosan Oligosaccharide Modified Gold Nanorods as Highly Effective Photothermal Agents for Ablation of Breast Cancer Cells. <i>Polymers</i> , 2018, 10, 232.	2.0	39
30	Highly transparent, hydrophobic fluorinated polymethylsiloxane/silica organic-inorganic hybrids for anti-stain coating. <i>Macromolecular Research</i> , 2013, 21, 669-680.	1.0	38
31	Chlorin e6 conjugated copper sulfide nanoparticles for photodynamic combined photothermal therapy. <i>Photodiagnosis and Photodynamic Therapy</i> , 2017, 19, 128-134.	1.3	37
32	Ion-imprinted mesoporous silica hybrids for selective recognition of target metal ions. <i>Microporous and Mesoporous Materials</i> , 2013, 180, 162-171.	2.2	36
33	Synthesis of amine-polyglycidol functionalised Fe ₃ O ₄ @SiO ₂ nanocomposites for magnetic hyperthermia, pH-responsive drug delivery, and bioimaging applications. <i>RSC Advances</i> , 2016, 6, 110444-110453.	1.7	34
34	Synthesis and In Vitro Performance of Polypyrrole-Coated Iron-Platinum Nanoparticles for Photothermal Therapy and Photoacoustic Imaging. <i>Nanoscale Research Letters</i> , 2017, 12, 570.	3.1	34
35	A modified mesoporous silica optical nanosensor for selective monitoring of multiple analytes in water. <i>Chemical Communications</i> , 2013, 49, 8758.	2.2	33
36	Astaxanthin conjugated polypyrrole nanoparticles as a multimodal agent for photo-based therapy and imaging. <i>International Journal of Pharmaceutics</i> , 2017, 517, 216-225.	2.6	31

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37	Multifunctional Periodic Mesoporous Organosilicas for Biomolecule Recognition, Biomedical Applications in Cancer Therapy, and Metal Adsorption. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 3028-3038.	1.0	28
38	Mesoporous organosilica hybrids with a tunable amphoteric framework for controlled drug delivery. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6487-6499.	2.9	27
39	Chitosan oligosaccharide coated mesoporous silica nanoparticles for pH-stimuli responsive drug delivery applications. <i>Journal of Porous Materials</i> , 2019, 26, 217-226.	1.3	25
40	Design of core-shell magnetic mesoporous silica hybrids for pH and UV light stimuli-responsive cargo release. <i>RSC Advances</i> , 2016, 6, 29106-29115.	1.7	24
41	Synthesis of surface capped mesoporous silica nanoparticles for pH-stimuli responsive drug delivery applications. <i>MedChemComm</i> , 2017, 8, 1797-1805.	3.5	19
42	Red fluorescent hybrid mesoporous organosilicas for simultaneous cell imaging and anticancer drug delivery. <i>RSC Advances</i> , 2014, 4, 43342-43345.	1.7	18
43	Crown ether triad modified core-shell magnetic mesoporous silica nanocarrier for pH-responsive drug delivery and magnetic hyperthermia applications. <i>New Journal of Chemistry</i> , 2017, 41, 10935-10947.	1.4	18
44	Fluorescent mesoporous organosilicas for selective monitoring of Hg ²⁺ and Fe ³⁺ ions in water and living cells. <i>Microporous and Mesoporous Materials</i> , 2014, 194, 219-228.	2.2	16
45	Synthesis of Fe ₃ O ₄ modified mesoporous silica hybrid for pH-responsive drug delivery and magnetic hyperthermia applications. <i>Journal of Porous Materials</i> , 2018, 25, 1251-1264.	1.3	15
46	Synthesis of Silica-Coated Magnetic Hydroxyapatite Composites for Drug Delivery Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2019, 19, 1951-1958.	0.9	12
47	Coating Chitosan Thin Shells: A Facile Technique to Improve Dispersion Stability of Magnetoliposomes. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 583-590.	0.9	6
48	Synthesis of urea-pyridyl ligand functionalized mesoporous silica hybrid material for hydrophobic and hydrophilic drug delivery application. <i>Journal of Porous Materials</i> , 2018, 25, 119-128.	1.3	5
49	Correction: Prussian blue decorated mesoporous silica hybrid nanocarriers for photoacoustic imaging-guided synergistic chemo-photothermal combination therapy. <i>Journal of Materials Chemistry B</i> , 2018, 6, 5476-5477.	2.9	3