

K Swaminathan Iyer

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,440
citations

218381

26
h-index

214527

47
g-index

70
all docs

70
docs citations

70
times ranked

4218
citing authors

#	ARTICLE	IF	CITATIONS
1	Prion-like domains in RNA binding proteins are essential for building subnuclear paraspeckles. <i>Journal of Cell Biology</i> , 2015, 210, 529-539.	2.3	269
2	Polystyrene Layers Grafted to Macromolecular Anchoring Layer. <i>Macromolecules</i> , 2003, 36, 6519-6526.	2.2	134
3	Distinction Between Active and Passive Targeting of Nanoparticles Dictate Their Overall Therapeutic Efficacy. <i>Langmuir</i> , 2018, 34, 15343-15349.	1.6	120
4	The structure of human SFPQ reveals a coiled-coil mediated polymer essential for functional aggregation in gene regulation. <i>Nucleic Acids Research</i> , 2015, 43, 3826-3840.	6.5	115
5	Nitrate removal from liquid effluents using microalgae immobilized on chitosan nanofiber mats. <i>Green Chemistry</i> , 2012, 14, 2682.	4.6	114
6	Synthetically controlling dendrimer flexibility improves delivery of large plasmid DNA. <i>Chemical Science</i> , 2017, 8, 2923-2930.	3.7	101
7	Macromolecular anchoring layers for polymer grafting: comparative study. <i>Polymer</i> , 2006, 47, 272-279.	1.8	91
8	Effect of Macromolecular Anchoring Layer Thickness and Molecular Weight on Polymer Grafting. <i>Macromolecules</i> , 2004, 37, 9538-9545.	2.2	86
9	Honeybee venom and melittin suppress growth factor receptor activation in HER2-enriched and triple-negative breast cancer. <i>Npj Precision Oncology</i> , 2020, 4, 24.	2.3	86
10	Therapeutic and safety considerations of nanoparticle-mediated drug delivery in pregnancy. <i>Nanomedicine</i> , 2015, 10, 2229-2247.	1.7	85
11	Multimodal Analysis of PEI-Mediated Endocytosis of Nanoparticles in Neural Cells. <i>ACS Nano</i> , 2011, 5, 8640-8648.	7.3	83
12	DNA G-Quadruplex and i-Motif Structure Formation Is Interdependent in Human Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 20600-20604.	6.6	74
13	Designer self-assembling hydrogel scaffolds can impact skin cell proliferation and migration. <i>Scientific Reports</i> , 2014, 4, 6903.	1.6	65
14	Coherency image analysis to quantify collagen architecture: implications in scar assessment. <i>RSC Advances</i> , 2018, 8, 9661-9669.	1.7	64
15	Biogenic production of palladium nanocrystals using microalgae and their immobilization on chitosan nanofibers for catalytic applications. <i>RSC Advances</i> , 2013, 3, 1009-1012.	1.7	60
16	Non-covalently modified graphene supported ultrafine nanoparticles of palladium for hydrogen gas sensing. <i>RSC Advances</i> , 2013, 3, 3213.	1.7	44
17	Capillary force lithography: the versatility of this facile approach in developing nanoscale applications. <i>Nanoscale</i> , 2015, 7, 401-414.	2.8	43
18	Magnetically recoverable Fe ₃ O ₄ @Au-coated nanoscale catalysts for the A ³ -coupling reaction. <i>Dalton Transactions</i> , 2017, 46, 5133-5137.	1.6	40

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19	Tumour suppression by targeted intravenous non-viral CRISPRa using dendritic polymers. <i>Chemical Science</i> , 2019, 10, 7718-7727.	3.7	37
20	An Unexpected Transient Breakdown of the Blood Brain Barrier Triggers Passage of Large Intravenously Administered Nanoparticles. <i>Scientific Reports</i> , 2016, 6, 22595.	1.6	34
21	High resolution crystal structure of a KRAS promoter G-quadruplex reveals a dimer with extensive poly-A I€-stacking interactions for small-molecule recognition. <i>Nucleic Acids Research</i> , 2020, 48, 5766-5776.	6.5	34
22	Regulation of Proteins to the Cytosol Using Delivery Systems with Engineered Polymer Architecture. <i>Journal of the American Chemical Society</i> , 2021, 143, 4758-4765.	6.6	34
23	Continuous flow tuning of ordered mesoporous silica under ambient conditions. <i>RSC Advances</i> , 2013, 3, 18767.	1.7	32
24	Hierarchical Patterning of Multifunctional Conducting Polymer Nanoparticles as a Bionic Platform for Topographic Contact Guidance. <i>ACS Nano</i> , 2015, 9, 1767-1774.	7.3	32
25	Magnetically Directed Assembly of Nanocrystals for Catalytic Control of a Three-Component Coupling Reaction. <i>Crystal Growth and Design</i> , 2016, 16, 4773-4776.	1.4	29
26	Examining Efficacy of â€œTAT-lessâ€•Delivery of a Peptide against the L-Type Calcium Channel in Cardiac Ischemiaâ€•Reperfusion Injury. <i>ACS Nano</i> , 2013, 7, 2212-2220.	7.3	28
27	Inflammation and blood-brain barrier breach remote from the primary injury following neurotrauma. <i>Journal of Neuroinflammation</i> , 2018, 15, 201.	3.1	27
28	RNA Interference Using <i>c-Myc</i> â€•Conjugated Nanoparticles Suppresses Breast and Colorectal Cancer Models. <i>Molecular Cancer Therapeutics</i> , 2015, 14, 1259-1269.	1.9	26
29	Enabling dual cellular destinations of polymeric nanoparticles for treatment following partial injury to the central nervous system. <i>Biomaterials</i> , 2016, 74, 200-216.	5.7	25
30	PRGD/PDLLA conduit potentiates rat sciatic nerve regeneration and the underlying molecular mechanism. <i>Biomaterials</i> , 2015, 55, 44-53.	5.7	24
31	Functional Reactive Polymer Electrospun Matrix. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 4934-4939.	4.0	24
32	Sensitizing basal-like breast cancer to chemotherapy using nanoparticles conjugated with interference peptide. <i>Nanoscale</i> , 2016, 8, 9343-9353.	2.8	23
33	Direct correlation of PNIPAM thermal transition and magnetic resonance relaxation of iron oxide nanoparticles. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2335-2340.	3.2	23
34	The potential for nanotechnology to improve delivery of therapy to the acute ischemic heart. <i>Nanomedicine</i> , 2016, 11, 817-832.	1.7	21
35	Regiospecific linear assembly of Pd nanocubes for hydrogen gas sensing. <i>Chemical Communications</i> , 2012, 48, 1033-1035.	2.2	20
36	Elucidating the Inability of Functionalized Nanoparticles to Cross the Bloodâ€•Brain Barrier and Target Specific Cells in Vivo. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22085-22095.	4.0	18

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37	Systematic assessment of surface functionality on nanoscale patterns for topographic contact guidance of cells. <i>New Journal of Chemistry</i> , 2018, 42, 7237-7240.	1.4	17
38	Surface Morphology of Mechanically Heterogeneous Ultrathin Polymer Films. <i>Langmuir</i> , 2003, 19, 118-124.	1.6	16
39	Suppressing regrowth of microfluidic generated drugnanocrystals using polyelectrolyte coatings. <i>RSC Advances</i> , 2013, 3, 695-698.	1.7	16
40	In situ coating of diatom frustules with silver nanoparticles. <i>Green Chemistry</i> , 2013, 15, 2060.	4.6	16
41	The Protein Corona of PEGylated PGMA-Based Nanoparticles is Preferentially Enriched with Specific Serum Proteins of Varied Biological Function. <i>Langmuir</i> , 2017, 33, 12926-12933.	1.6	16
42	Reversible submergence of nanoparticles into ultrathin block copolymer films. <i>Soft Matter</i> , 2011, 7, 2538.	1.2	15
43	Novel Hydrophilic Copolymer-Based Nanoparticle Enhances the Therapeutic Efficiency of Doxorubicin in Cultured MCF-7 Cells. <i>ACS Omega</i> , 2019, 4, 17083-17089.	1.6	14
44	Controlling anatase coating of diatom frustules by varying the binding layer. <i>CrystEngComm</i> , 2012, 14, 3446.	1.3	13
45	Palladium nano-carbon-calixarene based devices for hydrogen sensing. <i>New Journal of Chemistry</i> , 2013, 37, 3289.	1.4	13
46	Multicarbazole scaffolds for selective G-quadruplex binding. <i>Chemical Communications</i> , 2018, 54, 9647-9650.	2.2	13
47	Convergence of terahertz radiation and nanotechnology. <i>Journal of Materials Chemistry C</i> , 2020, 8, 10942-10955.	2.7	13
48	Superparamagnetic imposed diatom frustules for the effective removal of phosphates. <i>Green Chemistry</i> , 2014, 16, 82-85.	4.6	12
49	Polymeric Nanofibre Scaffold for the Delivery of a Transforming Growth Factor β 1 Inhibitor. <i>Australian Journal of Chemistry</i> , 2017, 70, 280.	0.5	11
50	Protein corona formation moderates the release kinetics of ion channel antagonists from transferrin-functionalized polymeric nanoparticles. <i>RSC Advances</i> , 2020, 10, 2856-2869.	1.7	11
51	Evaluating the effects of nacre on human skin and scar cells in culture. <i>Toxicology Research</i> , 2014, 3, 223-227.	0.9	10
52	Prolonged glutamate excitotoxicity increases GluR1 immunoreactivity but decreases mRNA of GluR1 and associated regulatory proteins in dissociated rat retinas in vitro. <i>Biochimie</i> , 2015, 112, 160-171.	1.3	10
53	Nanoparticle-mediated internalisation and release of a calcium channel blocker. <i>RSC Advances</i> , 2012, 2, 8587.	1.7	9
54	Surface Diffusion of Dendronized Polymers Correlates with Their Transfection Potential. <i>Langmuir</i> , 2020, 36, 9074-9080.	1.6	9

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55	A dendronised polymer architecture breaks the conventional inverse relationship between porosity and mechanical properties of hydrogels. <i>Chemical Communications</i> , 2021, 57, 773-776.	2.2	7
56	SP94-Targeted Nanoparticles Enhance the Efficacy of Sorafenib and Improve Liver Cancer Cell Discrimination. <i>ACS Applied Bio Materials</i> , 2021, 4, 1023-1029.	2.3	5
57	Colloidal Polymeric Platform for Facile Click-Assisted Ligand Functionalization and Receptor Targeting. <i>ACS Omega</i> , 2016, 1, 1114-1120.	1.6	4
58	Poly(glycidyl methacrylate) coated dual mode upconverting nanoparticles for neuronal cell imaging. <i>New Journal of Chemistry</i> , 2016, 40, 6692-6696.	1.4	4
59	Sodium ion association via bridging water molecules for different charged p-phosphonated calix[4]arene bilayers. <i>CrystEngComm</i> , 2012, 14, 8541.	1.3	3
60	An improved assay for the spectrophotometric determination of chondroitinase ABC activity. <i>New Journal of Chemistry</i> , 2013, 37, 1944.	1.4	3
61	Regulation of collagen expression using nanoparticle mediated inhibition of TGF- β 2 activation. <i>New Journal of Chemistry</i> , 2016, 40, 1091-1095.	1.4	3
62	Synthetic copolymer conjugates of docetaxel and in vitro assessment of anticancer efficacy. <i>New Journal of Chemistry</i> , 2020, 44, 20013-20020.	1.4	3
63	Block Copolymer Nanocomposite Films Containing Silver Nanoparticles. <i>ACS Symposium Series</i> , 2006, , 149-166.	0.5	2
64	A facile methodology using quantum dot multiplex labels for tracking co-transfection. <i>RSC Advances</i> , 2019, 9, 20053-20057.	1.7	2
65	Macromolecular approach for targeted radioimmunotherapy in non-Hodgkin's lymphoma. <i>Chemical Communications</i> , 2019, 55, 14506-14509.	2.2	2
66	Characterization of polymeric nanoparticles for treatment of partial injury to the central nervous system. <i>Data in Brief</i> , 2016, 7, 152-156.	0.5	1
67	A dendronized polymer variant that facilitates safe delivery of a calcium channel antagonist to the heart. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2020, 29, 102264.	1.7	1
68	A peptide-functionalised dendronised polymer for selective transfection in human liver cancer cells. <i>New Journal of Chemistry</i> , 2021, 45, 19315-19320.	1.4	1
69	Chain Formation of PNIPAM-Coated Magnetic Nanoparticles in an External Magnetic Field and the Effect of Temperature. <i>IEEE Transactions on Magnetics</i> , 2022, 58, 1-5.	1.2	0
70	Dendronised Polymers as Templates for In Situ Quantum Dot Synthesis. <i>Australian Journal of Chemistry</i> , 2020, 73, 658.	0.5	0