

Karthik S Pushpavanam

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Versatile Detection and Monitoring of Ionizing Radiation Treatment Using Radiation-Responsive Gel Nanosensors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14997-15007.	4.0	6
2	Interrogating biomineralization one amino acid at a time: amplification of mutational effects in protein-aided titania morphogenesis through reaction-diffusion control. <i>Chemical Communications</i> , 2021, 57, 4803-4806.	2.2	4
3	Solid-Binding Proteins: Bridging Synthesis, Assembly, and Function in Hybrid and Hierarchical Materials Fabrication. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2021, 12, 333-357.	3.3	6
4	Radiation-Responsive Amino Acid Nanosensor Gel (RANG) for Radiotherapy Monitoring and Trauma Care. <i>Bioconjugate Chemistry</i> , 2021, 32, 1984-1998.	1.8	2
5	Phase Control of Nanocrystalline Inclusions in Bioprecipitated Titania with a Panel of Mutant Silica-Binding Proteins. <i>Langmuir</i> , 2020, 36, 8503-8510.	1.6	7
6	Plasmonic gel nanocomposites for detection of high energy electrons. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4930-4939.	2.9	8
7	Flow-induced Shear Stress Confers Resistance to Carboplatin in an Adherent Three-Dimensional Model for Ovarian Cancer: A Role for EGFR-Targeted Photoimmunotherapy Informed by Physical Stress. <i>Journal of Clinical Medicine</i> , 2020, 9, 924.	1.0	31
8	Protein-facilitated gold nanoparticle formation as indicators of ionizing radiation. <i>Biotechnology and Bioengineering</i> , 2019, 116, 3160-3167.	1.7	5
9	Determination of topographical radiation dose profiles using gel nanosensors. <i>Science Advances</i> , 2019, 5, eaaw8704.	4.7	22
10	Hydrogel Nanosensors for Colorimetric Detection and Dosimetry in Proton Beam Radiotherapy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 3274-3281.	4.0	21
11	Mechanistic investigation of radiolysis-induced gold nanoparticle formation for radiation dose prediction. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 065011.	0.6	7
12	Detection of Therapeutic Levels of Ionizing Radiation Using Plasmonic Nanosensor Gels. <i>Advanced Functional Materials</i> , 2017, 27, 1606724.	7.8	28
13	Polypeptide-Facilitated Formation of Bimetallic Plasmonic Nanoparticles in Presence of Ionizing Radiation. <i>Nano LIFE</i> , 2017, 07, 1650006.	0.6	4
14	Molecular and Nanoscale Sensors for Detecting Ionizing Radiation in Radiotherapy. <i>ChemNanoMat</i> , 2016, 2, 385-395.	1.5	26
15	A Colorimetric Plasmonic Nanosensor for Dosimetry of Therapeutic Levels of Ionizing Radiation. <i>ACS Nano</i> , 2015, 9, 11540-11550.	7.3	38
16	Biotemplating Plasmonic Nanoparticles Using Intact Microfluidic Vasculature of Leaves. <i>Langmuir</i> , 2014, 30, 14095-14103.	1.6	11
17	Generation of Polypeptide-Templated Gold Nanoparticles using Ionizing Radiation. <i>Langmuir</i> , 2013, 29, 10166-10173.	1.6	20
18	An analysis of drifts and nonlinearities in electrochemical impedance spectra. <i>Electrochimica Acta</i> , 2011, 56, 7467-7475.	2.6	13