Akhilesh Rai

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Rapid synthesis of Au, Ag, and bimetallic Au core–Ag shell nanoparticles using Neem (Azadirachta) Tj ETQq1	1 0.784314 9.4	rgBT /Overlo 2,129
2	Biological synthesis of triangular gold nanoprisms. Nature Materials, 2004, 3, 482-488.	27.5	1,409
3	Controlling the Optical Properties of Lemongrass Extract Synthesized Gold Nanotriangles and Potential Application in Infrared-Absorbing Optical Coatings. Chemistry of Materials, 2005, 17, 566-572.	6.7	563
4	Role of Halide Ions and Temperature on the Morphology of Biologically Synthesized Gold Nanotriangles. Langmuir, 2006, 22, 736-741.	3.5	393
5	Antibiotic mediated synthesis of gold nanoparticles with potent antimicrobial activity and their application in antimicrobial coatings. Journal of Materials Chemistry, 2010, 20, 6789.	6.7	368
6	One-step synthesis of high-density peptide-conjugated gold nanoparticles with antimicrobial efficacy in a systemic infection model. Biomaterials, 2016, 85, 99-110.	11.4	127
7	High-density antimicrobial peptide coating with broad activity and low cytotoxicity against human cells. Acta Biomaterialia, 2016, 33, 64-77.	8.3	93
8	Synthesis of triangular Au core–Ag shell nanoparticles. Materials Research Bulletin, 2007, 42, 1212-1220.	5.2	71
9	High Antimicrobial Activity and Low Human Cell Cytotoxicity of Core–Shell Magnetic Nanoparticles Functionalized with an Antimicrobial Peptide. ACS Applied Materials & Interfaces, 2016, 8, 11366-11378.	8.0	56
10	Antimicrobial peptide-gold nanoscale therapeutic formulation with high skin regenerative potential. Journal of Controlled Release, 2017, 262, 58-71.	9.9	48
11	Antimicrobial peptide-based materials: opportunities and challenges. Journal of Materials Chemistry B, 2022, 10, 2384-2429.	5.8	47
12	Facile Fabrication of Uniform Silica Films with Tunable Physical Properties Using Silicatein Protein from Sponges. Langmuir, 2010, 26, 4152-4159.	3.5	46
13	MicroRNA-124-loaded nanoparticles increase survival and neuronal differentiation of neural stem cells in vitro but do not contribute to stroke outcome in vivo. PLoS ONE, 2018, 13, e0193609.	2.5	31
14	A nanoformulation for the preferential accumulation in adult neurogenic niches. Journal of Controlled Release, 2018, 284, 57-72.	9.9	30
15	Mussel adhesive protein inspired coatings: a versatile method to fabricate silica films on various surfaces. Journal of Materials Chemistry, 2012, 22, 4790.	6.7	29
16	Biomedical applications of the peptide decorated gold nanoparticles. Critical Reviews in Biotechnology, 2021, 41, 186-215.	9.0	21
17	Antimicrobial and pro-angiogenic properties of soluble and nanoparticle-immobilized LL37 peptides. Biomaterials Science, 2021, 9, 8153-8159.	5.4	16
18	Cecropin–Melittin Functionalized Polyurethane Surfaces Prevent <i>Staphylococcus epidermidis</i> Adhesion without Inducing Platelet Adhesion and Activation. Advanced Materials Interfaces, 2018, 5, 1801390.	3.7	14

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AKHILESH RAI

#	Article	IF	CITATIONS
19	Entrapment of commercially important invertase in silica particles at physiological pH and the effect of pH and temperature on enzyme activity. Materials Science and Engineering C, 2012, 32, 785-789.	7.3	13
20	Atomistic-Level Investigation of a LL37-Conjugated Gold Nanoparticle By Well-Tempered Metadynamics. Journal of Physical Chemistry B, 2018, 122, 8359-8366.	2.6	12
21	Antimicrobial Peptide-Tether Dressing Able to Enhance Wound Healing by Tissue Contact. ACS Applied Materials & Interfaces, 2022, 14, 24213-24228.	8.0	12
22	Fabrication of Tuneable Thickness Silica Films on Solid Surfaces Using Amines and Proteins. Silicon, 2009, 1, 91-101.	3.3	10
23	Fabrication, characterisation and performance of hydrophilic and super-hydrophilic silica as cell culture surfaces. Journal of Materials Chemistry, 2012, 22, 12141.	6.7	9
24	Findings on the interaction of the antimicrobial peptide cecropin-melittin with a gold surface from molecular dynamics studies. European Biophysics Journal, 2017, 46, 247-256.	2.2	8
25	A light-triggerable formulation to control the stability of pro-angiogenic transcription factor hypoxia inducible factor-11± (HIF-11±). Nanoscale, 2020, 12, 9935-9942.	5.6	7
26	Induced pluripotent stem cell-derived vascular networks to screen nano–bio interactions. Nanoscale Horizons, 2021, 6, 245-259.	8.0	7
27	Nanoparticle-Based Drug Delivery Systems: Promising Approaches Against Bacterial Infections. , 2019, , 605-633.		5
28	Experimental Validation & Performance Analysis of 100kW Solar Photovoltaic System. , 2018, , .		0