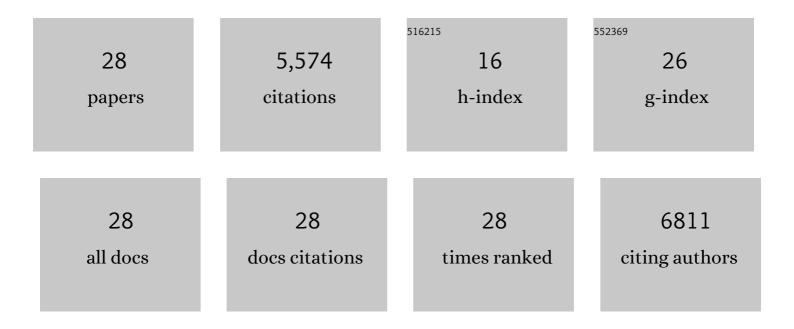
Akhilesh Rai

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/168562/publications.pdf Version: 2024-02-01



Δεμιτεμ Ρλι

#	Article	IF	CITATIONS
1	Antimicrobial peptide-based materials: opportunities and challenges. Journal of Materials Chemistry B, 2022, 10, 2384-2429.	2.9	47
2	Antimicrobial Peptide-Tether Dressing Able to Enhance Wound Healing by Tissue Contact. ACS Applied Materials & Interfaces, 2022, 14, 24213-24228.	4.0	12
3	Induced pluripotent stem cell-derived vascular networks to screen nano–bio interactions. Nanoscale Horizons, 2021, 6, 245-259.	4.1	7
4	Biomedical applications of the peptide decorated gold nanoparticles. Critical Reviews in Biotechnology, 2021, 41, 186-215.	5.1	21
5	Antimicrobial and pro-angiogenic properties of soluble and nanoparticle-immobilized LL37 peptides. Biomaterials Science, 2021, 9, 8153-8159.	2.6	16
6	A light-triggerable formulation to control the stability of pro-angiogenic transcription factor hypoxia inducible factor- $1\hat{l}$ (HIF- $1\hat{l}$). Nanoscale, 2020, 12, 9935-9942.	2.8	7
7	Nanoparticle-Based Drug Delivery Systems: Promising Approaches Against Bacterial Infections. , 2019, , 605-633.		5
8	Experimental Validation & Performance Analysis of 100kW Solar Photovoltaic System. , 2018, , .		0
9	Cecropin–Melittin Functionalized Polyurethane Surfaces Prevent <i>Staphylococcus epidermidis</i> Adhesion without Inducing Platelet Adhesion and Activation. Advanced Materials Interfaces, 2018, 5, 1801390.	1.9	14
10	Atomistic-Level Investigation of a LL37-Conjugated Gold Nanoparticle By Well-Tempered Metadynamics. Journal of Physical Chemistry B, 2018, 122, 8359-8366.	1.2	12
11	A nanoformulation for the preferential accumulation in adult neurogenic niches. Journal of Controlled Release, 2018, 284, 57-72.	4.8	30
12	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.	1.1	31
13	Antimicrobial peptide-gold nanoscale therapeutic formulation with high skin regenerative potential. Journal of Controlled Release, 2017, 262, 58-71.	4.8	48
14	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.	1.2	8
15	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.	4.0	56
16	High-density antimicrobial peptide coating with broad activity and low cytotoxicity against human cells. Acta Biomaterialia, 2016, 33, 64-77.	4.1	93
17	One-step synthesis of high-density peptide-conjugated gold nanoparticles with antimicrobial efficacy in a systemic infection model. Biomaterials, 2016, 85, 99-110.	5.7	127
18	Fabrication, characterisation and performance of hydrophilic and super-hydrophilic silica as cell culture surfaces. Journal of Materials Chemistry, 2012, 22, 12141.	6.7	9

AKHILESH RAI

#	Article	IF	CITATIONS
19	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
20	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.	3.8	13
21	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
22	Facile Fabrication of Uniform Silica Films with Tunable Physical Properties Using Silicatein Protein from Sponges. Langmuir, 2010, 26, 4152-4159.	1.6	46
23	Fabrication of Tuneable Thickness Silica Films on Solid Surfaces Using Amines and Proteins. Silicon, 2009, 1, 91-101.	1.8	10
24	Synthesis of triangular Au core–Ag shell nanoparticles. Materials Research Bulletin, 2007, 42, 1212-1220.	2.7	71
25	Role of Halide Ions and Temperature on the Morphology of Biologically Synthesized Gold Nanotriangles. Langmuir, 2006, 22, 736-741.	1.6	393
26	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.	3.2	563
27	Biological synthesis of triangular gold nanoprisms. Nature Materials, 2004, 3, 482-488.	13.3	1,409

Rapid synthesis of Au, Ag, and bimetallic Au core–Ag shell nanoparticles using Neem (Azadirachta) Tj ETQq0 0 0 rgBT /Overlock 10 Tf