

Daniel Aili

List of Publications by Year in descending order

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Version: 2024-02-01

74
papers

2,911
citations

172207

29
h-index

174990

52
g-index

80
all docs

80
docs citations

80
times ranked

4957
citing authors

#	ARTICLE	IF	CITATIONS
1	Enzyme-responsive nanoparticles for drug release and diagnostics. <i>Advanced Drug Delivery Reviews</i> , 2012, 64, 967-978.	6.6	607
2	Gold Coating of Silver Nanoprisms. <i>Advanced Functional Materials</i> , 2012, 22, 849-854.	7.8	116
3	Colorimetric Protein Sensing by Controlled Assembly of Gold Nanoparticles Functionalized with Synthetic Receptors. <i>Small</i> , 2009, 5, 2445-2452.	5.2	106
4	Hybrid Nanoparticle-Liposome Detection of Phospholipase Activity. <i>Nano Letters</i> , 2011, 11, 1401-1405.	4.5	105
5	Bioresponsive peptide-inorganic hybrid nanomaterials. <i>Chemical Society Reviews</i> , 2010, 39, 3358.	18.7	104
6	Folding Induced Assembly of Polypeptide Decorated Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2008, 130, 5780-5788.	6.6	101
7	Functionalization of bacterial cellulose wound dressings with the antimicrobial peptide α -poly-L-Lysine. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 025014.	1.7	86
8	Aggregation-Induced Folding of a De Novo Designed Polypeptide Immobilized on Gold Nanoparticles. <i>Journal of the American Chemical Society</i> , 2006, 128, 2194-2195.	6.6	77
9	Peptide functionalized gold nanoparticles for colorimetric detection of matrilysin (MMP-7) activity. <i>Nanoscale</i> , 2013, 5, 8973.	2.8	75
10	Substrate Effect on the Refractive Index Sensitivity of Silver Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2014, 118, 24680-24687.	1.5	74
11	Biofunctionalized Gold Nanoparticles for Colorimetric Sensing of Botulinum Neurotoxin A Light Chain. <i>Analytical Chemistry</i> , 2014, 86, 2345-2352.	3.2	71
12	Influence of Surfactant Bilayers on the Refractive Index Sensitivity and Catalytic Properties of Anisotropic Gold Nanoparticles. <i>Small</i> , 2016, 12, 330-342.	5.2	70
13	Fabrication of modular hyaluronan-PEG hydrogels to support 3D cultures of hepatocytes in a perfused liver-on-a-chip device. <i>Biofabrication</i> , 2019, 11, 015013.	3.7	61
14	Antibacterial effects of Lactobacillus and bacteriocin PLNC8 \pm on the periodontal pathogen Porphyromonas gingivalis. <i>BMC Microbiology</i> , 2016, 16, 188.	1.3	59
15	Polypeptide Folding-Mediated Tuning of the Optical and Structural Properties of Gold Nanoparticle Assemblies. <i>Nano Letters</i> , 2011, 11, 5564-5573.	4.5	55
16	Self-sorting heterodimeric coiled coil peptides with defined and tuneable self-assembly properties. <i>Scientific Reports</i> , 2015, 5, 14063.	1.6	54
17	Optimizing the Refractive Index Sensitivity of Plasmonically Coupled Gold Nanoparticles. <i>Plasmonics</i> , 2014, 9, 773-780.	1.8	52
18	Assembly of Polypeptide-Functionalized Gold Nanoparticles through a Heteroassociation- and Folding-Dependent Bridging. <i>Nano Letters</i> , 2008, 8, 2473-2478.	4.5	50

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19	Local Refractive Index Sensing Based on Edge Gold-Coated Silver Nanoprisms. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23148-23154.	1.5	49
20	Detection of Matrilysin Activity Using Polypeptide Functionalized Reduced Graphene Oxide Field-Effect Transistor Sensor. <i>Analytical Chemistry</i> , 2016, 88, 2994-2998.	3.2	45
21	Nanoplasmonic Sensing from the Human Vision Perspective. <i>Analytical Chemistry</i> , 2018, 90, 4916-4924.	3.2	43
22	Folding driven self-assembly of a stimuli-responsive peptide-hyaluronan hybrid hydrogel. <i>Scientific Reports</i> , 2017, 7, 7013.	1.6	42
23	Dynamic peptide-folding mediated biofunctionalization and modulation of hydrogels for 4D bioprinting. <i>Biofabrication</i> , 2020, 12, 035031.	3.7	41
24	Alpha-Helix-Inducing Dimerization of Synthetic Polypeptide Scaffolds on Gold. <i>Langmuir</i> , 2005, 21, 2480-2487.	1.6	40
25	Electroactive biomimetic collagen-silver nanowire composite scaffolds. <i>Nanoscale</i> , 2016, 8, 14146-14155.	2.8	40
26	Tailoring Supramolecular Peptide-Poly(ethylene glycol) Hydrogels by Coiled Coil Self-Assembly and Self-Sorting. <i>Biomacromolecules</i> , 2016, 17, 2260-2267.	2.6	37
27	Coiled coil-based therapeutics and drug delivery systems. <i>Advanced Drug Delivery Reviews</i> , 2021, 170, 26-43.	6.6	34
28	Peptide decorated gold nanoparticle/carbon nanotube electrochemical sensor for ultrasensitive detection of matrix metalloproteinase-7. <i>Sensors and Actuators B: Chemical</i> , 2020, 325, 128789.	4.0	33
29	Critical biophysical properties in the <i>Pseudomonas aeruginosa</i> efflux gene regulator MexR are targeted by mutations conferring multidrug resistance. <i>Protein Science</i> , 2010, 19, 680-692.	3.1	32
30	Layer-by-Layer Self-Assembly of Polymer Films and Capsules through Coiled-Coil Peptides. <i>Chemistry of Materials</i> , 2015, 27, 5820-5824.	3.2	32
31	Time-resolved botulinum neurotoxin A activity monitored using peptide-functionalized Au nanoparticle energy transfer sensors. <i>Chemical Science</i> , 2014, 5, 2651-2656.	3.7	30
32	Self-Assembly of Fibers and Nanorings from Disulfide-Linked Helix-Loop-Helix Polypeptides. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 5554-5556.	7.2	29
33	Autocrine production of biologically active hepatocyte growth factor (HGF) by injured human skin. <i>Journal of Dermatological Science</i> , 2006, 43, 49-56.	1.0	28
34	Self-Assembly of Mechanoplasmonic Bacterial Cellulose-Metal Nanoparticle Composites. <i>Advanced Functional Materials</i> , 2020, 30, 2004766.	7.8	24
35	Polypeptide-guided assembly of conducting polymer nanocomposites. <i>Nanoscale</i> , 2010, 2, 2058.	2.8	21
36	Specific functionalization of CTAB stabilized anisotropic gold nanoparticles with polypeptides for folding-mediated self-assembly. <i>Journal of Materials Chemistry</i> , 2012, 22, 20368.	6.7	21

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37	Protein-Functionalized Gold Nanoparticles as Refractometric Nanoplasmonic Sensors for the Detection of Proteolytic Activity of <i>Porphyrromonas gingivalis</i> . ACS Applied Nano Materials, 2020, 3, 9822-9830.	2.4	20
38	Plantaricin NC8 exerts potent antimicrobial activity against <i>Staphylococcus</i> spp. and enhances the effects of antibiotics. Scientific Reports, 2020, 10, 3580.	1.6	20
39	Near-Infrared Emitting and Pro-Angiogenic Electrospun Conjugated Polymer Scaffold for Optical Biomaterial Tracking. Advanced Functional Materials, 2015, 25, 4274-4281.	7.8	19
40	Supramolecular Assembly of Designed Helical Polypeptide-Based Nanostructures and Luminescent Conjugated Polyelectrolytes. Macromolecular Bioscience, 2010, 10, 836-841.	2.1	18
41	Peptide Functionalized Gold Nanoparticles as a Stimuli Responsive Contrast Medium in Multiphoton Microscopy. Nano Letters, 2017, 17, 2102-2108.	4.5	18
42	Hepatocyte growth factor (HGF) in fecal samples: rapid detection by surface plasmon resonance. BMC Gastroenterology, 2005, 5, 13.	0.8	17
43	Clinical impact of real-time evaluation of the biological activity and degradation of hepatocyte growth factor. Growth Factors, 2008, 26, 163-171.	0.5	15
44	Liposomes as nanoreactors for the photochemical synthesis of gold nanoparticles. Journal of Colloid and Interface Science, 2015, 456, 206-209.	5.0	15
45	Synthetic de novo designed polypeptides for control of nanoparticle assembly and biosensing. Biochemical Society Transactions, 2007, 35, 532-534.	1.6	14
46	Distinct Electrostatic Interactions Govern the Chiro-Optical Properties and Architectural Arrangement of Peptide-Oligothiophene Hybrid Materials. Macromolecules, 2017, 50, 7102-7110.	2.2	14
47	Real-Time Nanoplasmonic Sensor for IgG Monitoring in Bioproduction. Processes, 2020, 8, 1302.	1.3	14
48	Derivatization of a Bioorthogonal Protected Trisaccharide Linker Toward Multimodal Tools for Chemical Biology. Bioconjugate Chemistry, 2012, 23, 1333-1340.	1.8	13
49	Plantaricins markedly enhance the effects of traditional antibiotics against <i>Staphylococcus epidermidis</i> . Future Microbiology, 2019, 14, 195-205.	1.0	13
50	Immobilized Chemoattractant Peptides Mediate Adhesion and Distinct Calcium-Dependent Cell Signaling in Human Neutrophils. Langmuir, 2008, 24, 6803-6811.	1.6	12
51	Generic phosphatase activity detection using zinc mediated aggregation modulation of polypeptide-modified gold nanoparticles. Nanoscale, 2014, 6, 14204-14212.	2.8	12
52	Dual action of bacteriocin PLNC8 through inhibition of <i>Porphyrromonas gingivalis</i> infection and promotion of cell proliferation. Pathogens and Disease, 2017, 75, .	0.8	11
53	The Effect of Enzymatic Digestion on Cultured Epithelial Autografts. Cell Transplantation, 2019, 28, 638-644.	1.2	11
54	Zinc-Triggered Hierarchical Self-Assembly of Fibrous Helix-Loop-Helix Peptide Superstructures for Controlled Encapsulation and Release. Macromolecules, 2016, 49, 6997-7003.	2.2	10

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55	Tuning Liposome Membrane Permeability by Competitive Peptide Dimerization and Partitioning-Folding Interactions Regulated by Proteolytic Activity. <i>Scientific Reports</i> , 2016, 6, 21123.	1.6	10
56	Bioorthogonally Cross-Linked Hyaluronan-Laminin Hydrogels for 3D Neuronal Cell Culture and Biofabrication. <i>Advanced Healthcare Materials</i> , 2022, 11, e2102097.	3.9	10
57	Synthesis of oligo(lactose)-based thiols and their self-assembly onto gold surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 105, 187-193.	2.5	9
58	Tuning Liposome Membrane Permeability by Competitive Coiled Coil Heterodimerization and Heterodimer Exchange. <i>Langmuir</i> , 2018, 34, 6529-6537.	1.6	8
59	Intranasal Coronavirus SARS-CoV-2 Immunization with Lipid Adjuvants Provides Systemic and Mucosal Immune Response against SARS-CoV-2 S1 Spike and Nucleocapsid Protein. <i>Vaccines</i> , 2022, 10, 504.	2.1	8
60	Plantaricin NC8 \hat{I}^2 prevents <i>Staphylococcus aureus</i> -mediated cytotoxicity and inflammatory responses of human keratinocytes. <i>Scientific Reports</i> , 2021, 11, 12514.	1.6	7
61	Elastic Plasmonic-Enhanced Fabry-Pérot Cavities with Ultrasensitive Stretching Tunability. <i>Advanced Materials</i> , 2022, 34, e2106731.	11.1	7
62	Treatment of Nonhealing Ulcers with an Allograft/Xenograft Substitute: A Case Series. <i>Advances in Skin and Wound Care</i> , 2018, 31, 306-309.	0.5	6
63	Effects of macrophage polarization on gold nanoparticle-assisted plasmonic photothermal therapy. <i>RSC Advances</i> , 2021, 11, 25047-25056.	1.7	6
64	Sequence and length optimization of membrane active coiled coils for triggered liposome release. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 449-456.	1.4	5
65	Probing Zinc-Protein-Chelant Interactions Using Gold Nanoparticles Functionalized with Zinc-Responsive Polypeptides. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 1127-1133.	1.2	4
66	Mechanism and Kinetics of Lipid Bilayer Formation in Solid-State Nanopores. <i>Langmuir</i> , 2020, 36, 1446-1453.	1.6	4
67	Refractometric Sensing Using Plasmonic Nanoparticles. , 2016, , 3432-3440.		3
68	Peptide-Folding Triggered Phase Separation and Lipid Membrane Destabilization in Cholesterol-Rich Lipid Vesicles. <i>Bioconjugate Chemistry</i> , 2022, 33, 736-746.	1.8	3
69	Self-Assembly of a Structurally Defined Chiro-Optical Peptide-Oligothiophene Hybrid Material. <i>ACS Omega</i> , 2018, 3, 15066-15075.	1.6	2
70	Detection of gingipain activity using solid state nanopore sensors. <i>Sensors and Actuators B: Chemical</i> , 2022, 368, 132209.	4.0	2
71	Controlled assembly of gold nanoparticles using De Novo designed polypeptide scaffolds. <i>Proceedings of SPIE</i> , 2008, , .	0.8	1
72	Macromol. Biosci. 8/2010. <i>Macromolecular Bioscience</i> , 2010, 10, n/a-n/a.	2.1	0

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73	Refractometric Sensing Using Plasmonic Nanoparticles. , 2015, , 1-11.		0
74	Exploring plasmonic coupling as a stimuli responsive contrast mechanism in multiphoton microscopy. , 2018, , .		0