Daniel Aili

List of Publications by Year
in descending order

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	Elastic Plasmonicâ€Enhanced Fabryâ€“PÃ©rot Cavities with Ultrasensitive Stretching Tunability. Advanced Materials, 2022, 34, e2106731.	11.1	7
2	Bioorthogonally Crossâ€Linked Hyaluronanâ€“Laminin Hydrogels for 3D Neuronal Cell Culture and Biofabrication. Advanced Healthcare Materials, 2022, 11, e2102097.	3.9	10
3	Intranasal Coronavirus SARS-CoV-2 Immunization with Lipid Adjuvants Provides Systemic and Mucosal Immune Response against SARS-CoV-2 S1 Spike and Nucleocapsid Protein. Vaccines, 2022, 10, 504.	2.1	8
4	Peptide-Folding Triggered Phase Separation and Lipid Membrane Destabilization in Cholesterol-Rich Lipid Vesicles. Bioconjugate Chemistry, 2022, 33, 736-746.	1.8	3
5	Detection of gingipain activity using solid state nanopore sensors. Sensors and Actuators B: Chemical, 2022, 368, 132209.	4.0	2
6	Effects of macrophage polarization on gold nanoparticle-assisted plasmonic photothermal therapy. RSC Advances, 2021, 11, 25047-25056.	1.7	6
7	Coiled coil-based therapeutics and drug delivery systems. Advanced Drug Delivery Reviews, 2021, 170, 26-43.	6.6	34
8	Plantaricin NC8 Î±Î² prevents Staphylococcus aureus-mediated cytotoxicity and inflammatory responses of human keratinocytes. Scientific Reports, 2021, 11, 12514.	1.6	7
9	Peptide decorated gold nanoparticle/carbon nanotube electrochemical sensor for ultrasensitive detection of matrix metalloproteinase-7. Sensors and Actuators B: Chemical, 2020, 325, 128789.	4.0	33
10	Selfâ€Assembly of Mechanoplasmonic Bacterial Celluloseâ€“Metal Nanoparticle Composites. Advanced Functional Materials, 2020, 30, 2004766.	7.8	24
11	Protein-Functionalized Gold Nanoparticles as Refractometric Nanoplasmonic Sensors for the Detection of Proteolytic Activity of Porphyromonas gingivalis. ACS Applied Nano Materials, 2020, 3, 9822-9830.	2.4	20
12	Real-Time Nanoplasmonic Sensor for IgG Monitoring in Bioproduction. Processes, 2020, 8, 1302.	1.3	14
13	Dynamic peptide-folding mediated biofunctionalization and modulation of hydrogels for 4D bioprinting. Biofabrication, 2020, 12, 035031.	3.7	41
14	Plantaricin NC8 Î±Î² exerts potent antimicrobial activity against Staphylococcus spp. and enhances the effects of antibiotics. Scientific Reports, 2020, 10, 3580.	1.6	20
15	Mechanism and Kinetics of Lipid Bilayer Formation in Solid-State Nanopores. Langmuir, 2020, 36, 1446-1453.	1.6	4
16	The Effect of Enzymatic Digestion on Cultured Epithelial Autografts. Cell Transplantation, 2019, 28, 638-644.	1.2	11
17	Fabrication of modular hyaluronan-PEG hydrogels to support 3D cultures of hepatocytes in a perfused liver-on-a-chip device. Biofabrication, 2019, 11, 015013.	3.7	61
18	Sequence and length optimization of membrane active coiled coils for triggered liposome release. Biochimica Et Biophysica Acta - Biomembranes, 2019, 1861, 449-456.	1.4	5

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19	Plantaricins markedly enhance the effects of traditional antibiotics againstStaphylococcus epidermidis. Future Microbiology, 2019, 14, 195-205.	1.0	13
20	Nanoplasmonic Sensing from the Human Vision Perspective. Analytical Chemistry, 2018, 90, 4916-4924.	3.2	43
21	Functionalization of bacterial cellulose wound dressings with the antimicrobial peptide Îµ -poly-L-Lysine. Biomedical Materials (Bristol), 2018, 13, 025014.	1.7	86
22	Self-Assembly of a Structurally Defined Chiro-Optical Peptideâ€“Oligothiophene Hybrid Material. ACS Omega, 2018, 3, 15066-15075.	1.6	2
23	Tuning Liposome Membrane Permeability by Competitive Coiled Coil Heterodimerization and Heterodimer Exchange. Langmuir, 2018, 34, 6529-6537.	1.6	8
24	Treatment of Nonhealing Ulcers with an Allograft/Xenograft Substitute: A Case Series. Advances in Skin and Wound Care, 2018, 31, 306-309.	0.5	6
25	Exploring plasmonic coupling as a stimuli responsive contrast mechanism in multiphoton microscopy. , 2018, , .		0
26	Peptide Functionalized Gold Nanoparticles as a Stimuli Responsive Contrast Medium in Multiphoton Microscopy. Nano Letters, 2017, 17, 2102-2108.	4.5	18
27	Dual action of bacteriocin PLNC8 Î±Î² through inhibition of Porphyromonas gingivalis infection and promotion of cell proliferation. Pathogens and Disease, 2017, 75, .	0.8	11
28	Distinct Electrostatic Interactions Govern the Chiro-Optical Properties and Architectural Arrangement of Peptideâ€“Oligothiophene Hybrid Materials. Macromolecules, 2017, 50, 7102-7110.	2.2	14
29	Folding driven self-assembly of a stimuli-responsive peptide-hyaluronan hybrid hydrogel. Scientific Reports, 2017, 7, 7013.	1.6	42
30	Influence of Surfactant Bilayers on the Refractive Index Sensitivity and Catalytic Properties of Anisotropic Gold Nanoparticles. Small, 2016, 12, 330-342.	5.2	70
31	Refractometric Sensing Using Plasmonic Nanoparticles. , 2016, , 3432-3440.		3
32	Tailoring Supramolecular Peptideâ€“Poly(ethylene glycol) Hydrogels by Coiled Coil Self-Assembly and Self-Sorting. Biomacromolecules, 2016, 17, 2260-2267.	2.6	37
33	Antibacterial effects of Lactobacillus and bacteriocin PLNC8 Î±Î² on the periodontal pathogen Porphyromonas gingivalis. BMC Microbiology, 2016, 16, 188.	1.3	59
34	Zinc-Triggered Hierarchical Self-Assembly of Fibrous Helixâ€“Loopâ€“Helix Peptide Superstructures for Controlled Encapsulation and Release. Macromolecules, 2016, 49, 6997-7003.	2.2	10
35	Tuning Liposome Membrane Permeability by Competitive Peptide Dimerization and Partitioning-Folding Interactions Regulated by Proteolytic Activity. Scientific Reports, 2016, 6, 21123.	1.6	10
36	Electroactive biomimetic collagen-silver nanowire composite scaffolds. Nanoscale, 2016, 8, 14146-14155.	2.8	40

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37	Detection of Matrilysin Activity Using Polypeptide Functionalized Reduced Graphene Oxide Field-Effect Transistor Sensor. Analytical Chemistry, 2016, 88, 2994-2998.	3.2	45
38	Self-sorting heterodimeric coiled coil peptides with defined and tuneable self-assembly properties. Scientific Reports, 2015, 5, 14063.	1.6	54
39	Nearâ€Infrared Emitting and Proâ€Angiogenic Electrospun Conjugated Polymer Scaffold for Optical Biomaterial Tracking. Advanced Functional Materials, 2015, 25, 4274-4281.	7.8	19
40	Liposomes as nanoreactors for the photochemical synthesis of gold nanoparticles. Journal of Colloid and Interface Science, 2015, 456, 206-209.	5.0	15
41	Layer-by-Layer Self-Assembly of Polymer Films and Capsules through Coiled-Coil Peptides. Chemistry of Materials, 2015, 27, 5820-5824.	3.2	32
42	Refractometric Sensing Using Plasmonic Nanoparticles. , 2015, , 1-11.		0
43	Optimizing the Refractive Index Sensitivity of Plasmonically Coupled Gold Nanoparticles. Plasmonics, 2014, 9, 773-780.	1.8	52
44	Generic phosphatase activity detection using zinc mediated aggregation modulation of polypeptide-modified gold nanoparticles. Nanoscale, 2014, 6, 14204-14212.	2.8	12
45	Substrate Effect on the Refractive Index Sensitivity of Silver Nanoparticles. Journal of Physical Chemistry C, 2014, 118, 24680-24687.	1.5	74
46	Biofunctionalized Gold Nanoparticles for Colorimetric Sensing of Botulinum Neurotoxin A Light Chain. Analytical Chemistry, 2014, 86, 2345-2352.	3.2	71
47	Time-resolved botulinum neurotoxin A activity monitored using peptide-functionalized Au nanoparticle energy transfer sensors. Chemical Science, 2014, 5, 2651-2656.	3.7	30
48	Probing Zincâ€“Proteinâ€“Chelant Interactions Using Gold Nanoparticles Functionalized with Zincâ€Responsive Polypeptides. Particle and Particle Systems Characterization, 2014, 31, 1127-1133.	1.2	4
49	Peptide functionalized gold nanoparticles for colorimetric detection of matrilysin (MMP-7) activity. Nanoscale, 2013, 5, 8973.	2.8	75
50	Synthesis of oligo(lactose)-based thiols and their self-assembly onto gold surfaces. Colloids and Surfaces B: Biointerfaces, 2013, 105, 187-193.	2.5	9
51	Local Refractive Index Sensing Based on Edge Gold-Coated Silver Nanoprisms. Journal of Physical Chemistry C, 2013, 117, 23148-23154.	1.5	49
52	Specific functionalization of CTAB stabilized anisotropic gold nanoparticles with polypeptides for folding-mediated self-assembly. Journal of Materials Chemistry, 2012, 22, 20368.	6.7	21
53	Enzyme-responsive nanoparticles for drug release and diagnostics. Advanced Drug Delivery Reviews, 2012, 64, 967-978.	6.6	607
54	Derivatization of a Bioorthogonal Protected Trisaccharide Linkerâ€”Toward Multimodal Tools for Chemical Biology. Bioconjugate Chemistry, 2012, 23, 1333-1340.	1.8	13

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55	Gold Coating of Silver Nanoprisms. Advanced Functional Materials, 2012, 22, 849-854.	7.8	116
56	Polypeptide Folding-Mediated Tuning of the Optical and Structural Properties of Gold Nanoparticle Assemblies. Nano Letters, 2011, 11, 5564-5573.	4.5	55
57	Hybrid Nanoparticleâ^'Liposome Detection of Phospholipase Activity. Nano Letters, 2011, 11, 1401-1405.	4.5	105
58	Supramolecular Assembly of Designed Î±â€Helical Polypeptideâ€Based Nanostructures and Luminescent Conjugated Polyelectrolytes. Macromolecular Bioscience, 2010, 10, 836-841.	2.1	18
59	Macromol. Biosci. 8/2010. Macromolecular Bioscience, 2010, 10, n/a-n/a.	2.1	0
60	Critical biophysical properties in the Pseudomonas aeruginosa efflux gene regulator MexR are targeted by mutations conferring multidrug resistance. Protein Science, 2010, 19, 680-692.	3.1	32
61	Bioresponsive peptideâ€“inorganic hybrid nanomaterials. Chemical Society Reviews, 2010, 39, 3358.	18.7	104
62	Polypeptide-guided assembly of conducting polymer nanocomposites. Nanoscale, 2010, 2, 2058.	2.8	21
63	Colorimetric Protein Sensing by Controlled Assembly of Gold Nanoparticles Functionalized with Synthetic Receptors. Small, 2009, 5, 2445-2452.	5.2	106
64	Selfâ€Assembly of Fibers and Nanorings from Disulfideâ€Linked Helixâ€“Loopâ€“Helix Polypeptides. Angewandte Chemie - International Edition, 2008, 47, 5554-5556.	7.2	29
65	Assembly of Polypeptide-Functionalized Gold Nanoparticles through a Heteroassociation- and Folding-Dependent Bridging. Nano Letters, 2008, 8, 2473-2478.	4.5	50
66	Folding Induced Assembly of Polypeptide Decorated Gold Nanoparticles. Journal of the American Chemical Society, 2008, 130, 5780-5788.	6.6	101
67	Immobilized Chemoattractant Peptides Mediate Adhesion and Distinct Calcium-Dependent Cell Signaling in Human Neutrophils. Langmuir, 2008, 24, 6803-6811.	1.6	12
68	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
69	Controlled assembly of gold nanoparticles using De Novo designed polypeptide scaffolds. Proceedings of SPIE, 2008, , .	0.8	1
70	Synthetic de novo designed polypeptides for control of nanoparticle assembly and biosensing. Biochemical Society Transactions, 2007, 35, 532-534.	1.6	14
71	Autocrine production of biologically active hepatocyte growth factor (HGF) by injured human skin. Journal of Dermatological Science, 2006, 43, 49-56.	1.0	28
72	Aggregation-Induced Folding of a De Novo Designed Polypeptide Immobilized on Gold Nanoparticles. Journal of the American Chemical Society, 2006, 128, 2194-2195.	6.6	77

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73	Hepatocyte growth factor (HGF) in fecal samples: rapid detection by surface plasmon resonance. BMC Gastroenterology, 2005, 5, 13.	0.8	17
74	Alpha-Helix-Inducing Dimerization of Synthetic Polypeptide Scaffolds on Gold. Langmuir, 2005, 21, 2480-2487.	1.6	40