

Kimberly Hamad-Schifferli

List of Publications by Year in descending order

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61
papers

5,541
citations

101496

36
h-index

128225

60
g-index

63
all docs

63
docs citations

63
times ranked

9080
citing authors

#	ARTICLE	IF	CITATIONS
1	Platinum~Gold Nanoparticles: A Highly Active Bifunctional Electrocatalyst for Rechargeable Lithium~Air Batteries. <i>Journal of the American Chemical Society</i> , 2010, 132, 12170-12171.	6.6	1,171
2	Selective Release of Multiple DNA Oligonucleotides from Gold Nanorods. <i>ACS Nano</i> , 2009, 3, 80-86.	7.3	395
3	Remote electronic control of DNA hybridization through inductive coupling to an attached metal nanocrystal antenna. <i>Nature</i> , 2002, 415, 152-155.	13.7	382
4	Multicolored silver nanoparticles for multiplexed disease diagnostics: distinguishing dengue, yellow fever, and Ebola viruses. <i>Lab on A Chip</i> , 2015, 15, 1638-1641.	3.1	269
5	Surface Composition Tuning of Au~Pt Bimetallic Nanoparticles for Enhanced Carbon Monoxide and Methanol Electro-oxidation. <i>Journal of the American Chemical Society</i> , 2013, 135, 7985-7991.	6.6	266
6	Gold Nanoparticle~Cytochrome c Complexes:~The Effect of Nanoparticle Ligand Charge on Protein Structure. <i>Langmuir</i> , 2005, 21, 12080-12084.	1.6	210
7	Ligand Customization and DNA Functionalization of Gold Nanorods via Round-Trip Phase Transfer Ligand Exchange. <i>Langmuir</i> , 2008, 24, 9966-9969.	1.6	184
8	Effect of Gold Nanorod Surface Chemistry on Cellular Response. <i>ACS Nano</i> , 2011, 5, 2870-2879.	7.3	171
9	Exploiting the Protein Corona around Gold Nanorods for Loading and Triggered Release. <i>ACS Nano</i> , 2012, 6, 6730-6740.	7.3	170
10	Rapid antigen tests for dengue virus serotypes and Zika virus in patient serum. <i>Science Translational Medicine</i> , 2017, 9, .	5.8	148
11	Surface-Enhanced Raman Spectroscopy-Based Sandwich Immunoassays for Multiplexed Detection of Zika and Dengue Viral Biomarkers. <i>ACS Infectious Diseases</i> , 2017, 3, 767-776.	1.8	134
12	Changes in Oligonucleotide Conformation on Nanoparticle Surfaces by Modification with Mercaptohexanol. <i>Nano Letters</i> , 2004, 4, 1925-1929.	4.5	132
13	Optimizing the Properties of the Protein Corona Surrounding Nanoparticles for Tuning Payload Release. <i>ACS Nano</i> , 2013, 7, 10066-10074.	7.3	121
14	Extinction Coefficient of Gold Nanostars. <i>Journal of Physical Chemistry C</i> , 2015, 119, 17408-17415.	1.5	118
15	Site-directed nanoparticle labeling of cytochrome <i>c</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 4095-4100.	3.3	107
16	Challenges of the Nano~Bio Interface in Lateral Flow and Dipstick Immunoassays. <i>Trends in Biotechnology</i> , 2017, 35, 1169-1180.	4.9	89
17	Designing Paper-Based Immunoassays for Biomedical Applications. <i>Sensors</i> , 2019, 19, 554.	2.1	86
18	Nanoscale interfaces to biology. <i>Current Opinion in Chemical Biology</i> , 2010, 14, 616-622.	2.8	69

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19	Exploiting the novel properties of protein coronas: emerging applications in nanomedicine. <i>Nanomedicine</i> , 2015, 10, 1663-1674.	1.7	68
20	Effect of Ligands on Thermal Dissipation from Gold Nanorods. <i>Langmuir</i> , 2010, 26, 3786-3789.	1.6	60
21	High-Density Encapsulation of Fe ₃ O ₄ Nanoparticles in Lipid Vesicles. <i>Langmuir</i> , 2007, 23, 9546-9550.	1.6	59
22	Effect of the Protein Corona on Antibody-Antigen Binding in Nanoparticle Sandwich Immunoassays. <i>Bioconjugate Chemistry</i> , 2017, 28, 230-238.	1.8	58
23	Nucleotide-Surface Interactions in DNA-Modified Au Nanoparticle Conjugates: Sequence Effects on Reactivity and Hybridization. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7517-7521.	1.5	57
24	Enhancement of <i>In Vitro</i> Translation by Gold Nanoparticle-DNA Conjugates. <i>ACS Nano</i> , 2010, 4, 2555-2560.	7.3	57
25	Evaluation of Hydrodynamic Size and Zeta-Potential of Surface-Modified Au Nanoparticle-DNA Conjugates via Ferguson Analysis. <i>Journal of Physical Chemistry C</i> , 2008, 112, 7611-7616.	1.5	55
26	Protein Coronas on Gold Nanorods Passivated with Amphiphilic Ligands Affect Cytotoxicity and Cellular Response to Penicillin/Streptomycin. <i>ACS Nano</i> , 2014, 8, 4608-4620.	7.3	55
27	Physical Properties of Biomolecules at the Nanomaterial Interface. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2827-2840.	1.2	53
28	Synthesis of different-sized gold nanostars for Raman bioimaging and photothermal therapy in cancer nanotheranostics. <i>Science China Chemistry</i> , 2017, 60, 1219-1229.	4.2	49
29	Labeling Ribonuclease S with a 3 nm Au Nanoparticle by Two-Step Assembly. <i>Nano Letters</i> , 2005, 5, 519-522.	4.5	48
30	Stability of Gold Nanorods Passivated with Amphiphilic Ligands. <i>Langmuir</i> , 2012, 28, 8834-8844.	1.6	47
31	Reporter Selection for Nanotags in Multiplexed Surface Enhanced Raman Spectroscopy Assays. <i>ACS Omega</i> , 2018, 3, 10733-10742.	1.6	43
32	Engineering the Interface between Glucose Oxidase and Nanoparticles. <i>Langmuir</i> , 2012, 28, 5190-5200.	1.6	42
33	Magnetic field heating study of Fe-doped Au nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 309, 15-19.	1.0	41
34	Direct Colloidal Route for Pt-Covered AuPt Bimetallic Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 2514-2518.	2.1	41
35	A comparison of nanoparticle-antibody conjugation strategies in sandwich immunoassays. <i>Journal of Immunoassay and Immunochemistry</i> , 2017, 38, 355-377.	0.5	41
36	Effective Size and Zeta Potential of Nanorods by Ferguson Analysis. <i>Langmuir</i> , 2010, 26, 13071-13075.	1.6	38

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37	Quantifying the Nanomachinery of the Nanoparticle–Biomolecule Interface. <i>Small</i> , 2011, 7, 2477-2484.	5.2	38
38	Effect of architecture on the activity of glucose oxidase/horseradish peroxidase/carbon nanoparticle conjugates. <i>Journal of Colloid and Interface Science</i> , 2014, 414, 73-81.	5.0	33
39	Design of SERS nanotags for multiplexed lateral flow immunoassays. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 401-409.	1.7	32
40	Selective Light-Triggered Release of DNA from Gold Nanorods Switches Blood Clotting On and Off. <i>PLoS ONE</i> , 2013, 8, e68511.	1.1	29
41	Release Mechanism of Octadecyl Rhodamine B Chloride from Au Nanorods by Ultrafast Laser Pulses. <i>Journal of Physical Chemistry C</i> , 2009, 113, 5967-5973.	1.5	27
42	Protein thin film machines. <i>Nanoscale</i> , 2010, 2, 2570.	2.8	26
43	Detection of resistance protein A (MxA) in paper-based immunoassays with surface enhanced Raman spectroscopy with AuAg nanoshells. <i>Nanoscale</i> , 2019, 11, 10819-10827.	2.8	26
44	Developing a Paper-Based Antigen Assay to Differentiate between Coronaviruses and SARS-CoV-2 Spike Variants. <i>Analytical Chemistry</i> , 2021, 93, 7825-7832.	3.2	26
45	Structure of cytochrome c at the interface with magnetic CoFe ₂ O ₄ nanoparticles. <i>Soft Matter</i> , 2008, 4, 554.	1.2	24
46	Repurposing Old Antibodies for New Diseases by Exploiting Cross-Reactivity and Multicolored Nanoparticles. <i>ACS Nano</i> , 2020, 14, 6626-6635.	7.3	19
47	Nanomechanics of surface DNA switches probed by captive contact angle. <i>Journal of Colloid and Interface Science</i> , 2013, 402, 334-339.	5.0	17
48	PERSIA for Direct Fluorescence Measurements of Transcription, Translation, and Enzyme Activity in Cell-Free Systems. <i>ACS Synthetic Biology</i> , 2019, 8, 1010-1025.	1.9	16
49	Protease Degradation of Protein Coronas and Its Impact on Cancer Cells and Drug Payload Release. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 14588-14596.	4.0	15
50	The Immunoprobe Aggregation State is Central to Dipstick Immunoassay Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34620-34629.	4.0	15
51	Ampli: A Construction Set for Paperfluidic Systems. <i>Advanced Healthcare Materials</i> , 2018, 7, e1800104.	3.9	14
52	Local development of nanotechnology-based diagnostics. <i>Nature Nanotechnology</i> , 2021, 16, 484-486.	15.6	12
53	Distributed Biological Foundries for Global Health. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900184.	3.9	11
54	Optimization of paper-based nanoparticle immunoassays for direct detection of the bacterial pathogen <i>V. parahaemolyticus</i> in oyster hemolymph. <i>Analytical Methods</i> , 2020, 12, 3056-3063.	1.3	9

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55	In situ microfluidic SERS assay for monitoring enzymatic breakdown of organophosphates. <i>Nanoscale</i> , 2015, 7, 11013-11023.	2.8	8
56	SARS-CoV-2 and approaches for a testing and diagnostic strategy. <i>Journal of Materials Chemistry B</i> , 2021, 9, 8157-8173.	2.9	4
57	Synthesis of water-soluble, magnetic Fe/Au nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2005, 900, 1.	0.1	3
58	Selective Heating of Multiple Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2005, 900, 1.	0.1	1
59	Site-specific Labeling of Active Proteins with Gold Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2005, 900, 1.	0.1	1
60	Biogenic, hybrid and synthetic vesicles. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129779.	1.1	1
61	Control of Enzymatic Activities by Magnetite Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , 2006, 950, 1.	0.1	0