

Jason H Hafner

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5718725/publications.pdf>

Version: 2024-02-01

106
papers

24,214
citations

34105

52
h-index

40979

93
g-index

111
all docs

111
docs citations

111
times ranked

22172
citing authors

#	ARTICLE	IF	CITATIONS
1	Localized Surface Plasmon Resonance Sensors. <i>Chemical Reviews</i> , 2011, 111, 3828-3857.	47.7	3,388
2	Fullerene Pipes. <i>Science</i> , 1998, 280, 1253-1256.	12.6	3,032
3	Nanotubes as nanoprobes in scanning probe microscopy. <i>Nature</i> , 1996, 384, 147-150.	27.8	2,213
4	Unraveling Nanotubes: Field Emission from an Atomic Wire. <i>Science</i> , 1995, 269, 1550-1553.	12.6	1,525
5	Structural (n,m) Determination of Isolated Single-Wall Carbon Nanotubes by Resonant Raman Scattering. <i>Physical Review Letters</i> , 2001, 86, 1118-1121.	7.8	1,405
6	Optical Properties of Star-Shaped Gold Nanoparticles. <i>Nano Letters</i> , 2006, 6, 683-688.	9.1	1,054
7	Fabry - Perot interference in a nanotube electron waveguide. <i>Nature</i> , 2001, 411, 665-669.	27.8	875
8	Plasmon Resonances of a Gold Nanostar. <i>Nano Letters</i> , 2007, 7, 729-732.	9.1	838
9	Catalytic growth of single-wall carbon nanotubes from metal particles. <i>Chemical Physics Letters</i> , 1998, 296, 195-202.	2.6	608
10	Close Encounters between Two Nanoshells. <i>Nano Letters</i> , 2008, 8, 1212-1218.	9.1	462
11	G-band resonant Raman study of 62 isolated single-wall carbon nanotubes. <i>Physical Review B</i> , 2002, 65, .	3.2	430
12	Shape-dependent plasmon resonances of gold nanoparticles. <i>Journal of Materials Chemistry</i> , 2008, 18, 2415.	6.7	415
13	A Label-Free Immunoassay Based Upon Localized Surface Plasmon Resonance of Gold Nanorods. <i>ACS Nano</i> , 2008, 2, 687-692.	14.6	414
14	Gold Nanorod Bioconjugates. <i>Chemistry of Materials</i> , 2005, 17, 4636-4641.	6.7	411
15	Fullerene 'crop circles'. <i>Nature</i> , 1997, 385, 780-781.	27.8	402
16	Resonant Electron Scattering by Defects in Single-Walled Carbon Nanotubes. <i>Science</i> , 2001, 291, 283-285.	12.6	391
17	Growth of nanotubes for probe microscopy tips. <i>Nature</i> , 1999, 398, 761-762.	27.8	384
18	Biomedical applications of plasmon resonant metal nanoparticles. <i>Nanomedicine</i> , 2006, 1, 201-208.	3.3	344

#	ARTICLE	IF	CITATIONS
19	Plasmonic Nanobubbles as Transient Vapor Nanobubbles Generated around Plasmonic Nanoparticles. ACS Nano, 2010, 4, 2109-2123.	14.6	334
20	High-Yield Assembly of Individual Single-Walled Carbon Nanotube Tips for Scanning Probe Microscopies. Journal of Physical Chemistry B, 2001, 105, 743-746.	2.6	332
21	Structural and functional imaging with carbon nanotube AFM probes. Progress in Biophysics and Molecular Biology, 2001, 77, 73-110.	2.9	311
22	Growth and Sintering of Fullerene Nanotubes. Science, 1994, 266, 1218-1222.	12.6	285
23	Symmetry breaking in individual plasmonic nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10856-10860.	7.1	270
24	Scattering Spectra of Single Gold Nanoshells. Nano Letters, 2004, 4, 2355-2359.	9.1	269
25	Carbon nanotube atomic force microscopy tips: Direct growth by chemical vapor deposition and application to high-resolution imaging. Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 3809-3813.	7.1	230
26	Direct Growth of Single-Walled Carbon Nanotube Scanning Probe Microscopy Tips. Journal of the American Chemical Society, 1999, 121, 9750-9751.	13.7	213
27	Joint density of electronic states for one isolated single-wall carbon nanotube studied by resonant Raman scattering. Physical Review B, 2001, 63, .	3.2	149
28	A single molecule immunoassay by localized surface plasmon resonance. Nanotechnology, 2010, 21, 255503.	2.6	149
29	Noble Metal Nanowires: From Plasmon Waveguides to Passive and Active Devices. Accounts of Chemical Research, 2012, 45, 1887-1895.	15.6	133
30	Growth and fabrication with single-walled carbon nanotube probe microscopy tips. Applied Physics Letters, 2000, 76, 3136-3138.	3.3	132
31	Polarized resonant Raman study of isolated single-wall carbon nanotubes: Symmetry selection rules, dipolar and multipolar antenna effects. Physical Review B, 2002, 65, .	3.2	124
32	Improved Localized Surface Plasmon Resonance Immunoassay with Gold Bipyramid Substrates. Analytical Chemistry, 2009, 81, 4450-4455.	6.5	124
33	Tunable plasmonic nanobubbles for cell theranostics. Nanotechnology, 2010, 21, 085102.	2.6	122
34	Chirality-dependent G-band Raman intensity of carbon nanotubes. Physical Review B, 2001, 64, .	3.2	115
35	Diameter dependence of the Raman D-band in isolated single-wall carbon nanotubes. Physical Review B, 2001, 64, .	3.2	112
36	Optically guided controlled release from liposomes with tunable plasmonic nanobubbles. Journal of Controlled Release, 2010, 144, 151-158.	9.9	106

#	ARTICLE	IF	CITATIONS
37	The in vivo performance of plasmonic nanobubbles as cell theranostic agents in zebrafish hosting prostate cancer xenografts. <i>Biomaterials</i> , 2010, 31, 7567-7574.	11.4	103
38	Utilizing 3D SERS Active Volumes in Aligned Carbon Nanotube Scaffold Substrates. <i>Advanced Materials</i> , 2012, 24, 5261-5266.	21.0	103
39	Plastic deformations in mechanically strained single-walled carbon nanotubes. <i>Physical Review B</i> , 2003, 67, .	3.2	99
40	A Plethora of Plasmonics from the Laboratory for Nanophotonics at Rice University. <i>Advanced Materials</i> , 2012, 24, 4842-4877.	21.0	94
41	The stabilization and targeting of surfactant-synthesized gold nanorods. <i>Nanotechnology</i> , 2009, 20, 434005.	2.6	92
42	Structural Transition in the Surfactant Layer that Surrounds Gold Nanorods as Observed by Analytical Surface-Enhanced Raman Spectroscopy. <i>Langmuir</i> , 2011, 27, 14748-14756.	3.5	88
43	LANTCET: elimination of solid tumor cells with photothermal bubbles generated around clusters of gold nanoparticles. <i>Nanomedicine</i> , 2008, 3, 647-667.	3.3	86
44	Electronic transition energy E_{ii} for an isolated (n,m) single-wall carbon nanotube obtained by anti-Stokes/Stokes resonant Raman intensity ratio. <i>Physical Review B</i> , 2001, 63, .	3.2	84
45	Direct Imaging of Human SWI/SNF-Remodeled Mono- and Polynucleosomes by Atomic Force Microscopy Employing Carbon Nanotube Tips. <i>Molecular and Cellular Biology</i> , 2001, 21, 8504-8511.	2.3	82
46	Structural biology with carbon nanotube AFM probes. <i>Chemistry and Biology</i> , 2000, 7, R193-R204.	6.0	76
47	Anomalous two-peak G^{2-} -band Raman effect in one isolated single-wall carbon nanotube. <i>Physical Review B</i> , 2002, 65, .	3.2	76
48	Tunable Plasmonic Nanoprobes for Theranostics of Prostate Cancer. <i>Theranostics</i> , 2011, 1, 3-17.	10.0	74
49	Monitoring Gold Nanorod Synthesis by Localized Surface Plasmon Resonance. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22323-22327.	2.6	70
50	Electronic properties of mechanically induced kinks in single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2001, 78, 3693-3695.	3.3	68
51	Probing the Lipid Membrane Dipole Potential by Atomic Force Microscopy. <i>Biophysical Journal</i> , 2008, 95, 5193-5199.	0.5	58
52	A Tunable Plasmon Resonance in Gold Nanobelts. <i>Nano Letters</i> , 2011, 11, 5034-5037.	9.1	56
53	Probing the electronic trigonal warping effect in individual single-wall carbon nanotubes using phonon spectra. <i>Chemical Physics Letters</i> , 2002, 354, 62-68.	2.6	51
54	Recycling Is Not Always Good: The Dangers of Self-Plagiarism. <i>ACS Nano</i> , 2012, 6, 1-4.	14.6	49

#	ARTICLE	IF	CITATIONS
55	Enhanced Raman Scattering from Nanoparticle-Decorated Nanocone Substrates: A Practical Approach to Harness In-Plane Excitation. ACS Nano, 2010, 4, 5721-5730.	14.6	48
56	Effect of quantized electronic states on the dispersive Raman features in individual single-wall carbon nanotubes. Physical Review B, 2001, 65, .	3.2	46
57	Photothermal bubbles as optical scattering probes for imaging living cells. Nanomedicine, 2008, 3, 797-812.	3.3	43
58	Quantitative Measurements of Individual Gold Nanoparticle Scattering Cross Sections. Journal of Physical Chemistry C, 2010, 114, 11127-11132.	3.1	43
59	Analysis of Phospholipid Bilayers on Gold Nanorods by Plasmon Resonance Sensing and Surface-Enhanced Raman Scattering. Langmuir, 2015, 31, 9893-9900.	3.5	43
60	Quantitative Membrane Electrostatics with the Atomic Force Microscope. Biophysical Journal, 2007, 92, 1966-1974.	0.5	39
61	Monitoring Gold Nanorod Synthesis on Surfaces. Journal of Physical Chemistry B, 2004, 108, 19276-19280.	2.6	38
62	Low-Temperature Single-Wall Carbon Nanotube Synthesis by Thermal Chemical Vapor Deposition. Journal of Physical Chemistry B, 2004, 108, 6941-6943.	2.6	34
63	Hot plasmonic interactions: a new look at the photothermal efficacy of gold nanoparticles. Physical Chemistry Chemical Physics, 2010, 12, 12237.	2.8	34
64	Scanning Probe Microscopy Studies of Carbon Nanotubes. , 2001, , 173-211.		32
65	Fluid Electric Force Microscopy for Charge Density Mapping in Biological Systems. Langmuir, 2003, 19, 10007-10010.	3.5	32
66	Gold Nanobelts as High Confinement Plasmonic Waveguides. Nano Letters, 2013, 13, 6256-6261.	9.1	26
67	Nanoscience and Nanotechnology Impacting Diverse Fields of Science, Engineering, and Medicine. ACS Nano, 2016, 10, 10615-10617.	14.6	22
68	Generation and detection of plasmonic nanobubbles in zebrafish. Nanotechnology, 2010, 21, 225102.	2.6	20
69	The Art of the Cover Letter. ACS Nano, 2010, 4, 2487-2487.	14.6	16
70	Virtual Issue on Plasmonics. ACS Nano, 2011, 5, 4245-4248.	14.6	16
71	Synthesis and Crystal Structure of Gold Nanobelts. Chemistry of Materials, 2014, 26, 1999-2004.	6.7	15
72	Structural Analysis by Enhanced Raman Scattering. Nano Letters, 2017, 17, 2172-2177.	9.1	15

#	ARTICLE	IF	CITATIONS
73	Rainbow Plasmonic Nanobubbles: Synergistic Activation of Gold Nanoparticle Clusters. <i>Journal of Nanomedicine & Nanotechnology</i> , 2011, 02, 1-8.	1.1	15
74	Nanostructure shape effects on response of plasmonic aptamer sensors. <i>Journal of Molecular Recognition</i> , 2013, 26, 402-407.	2.1	14
75	Ultraviolet Analysis of Gold Nanorod and Nanosphere Solutions. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5201-5207.	3.1	12
76	Effects of Surface Protein Adsorption on the Distribution and Retention of Intratumorally Administered Gold Nanoparticles. <i>Pharmaceutics</i> , 2021, 13, 216.	4.5	10
77	Field Emission and Growth of Fullerene Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 1994, 359, 61.	0.1	7
78	Novel Plasmonic Structures Based on Gold Nanobelts. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4734-4739.	3.1	7
79	Improvements in Gold Nanorod Biocompatibility with Sodium Dodecyl Sulfate Stabilization. <i>Journal of Nanotheranostics</i> , 2021, 2, 157-173.	3.1	7
80	Protein Crystals as Scanned Probes for Recognition Atomic Force Microscopy. <i>Nano Letters</i> , 2005, 5, 2418-2421.	9.1	6
81	Surface-modified gold nanorods for specific cell targeting. <i>Journal of the Korean Physical Society</i> , 2012, 60, 1700-1707.	0.7	6
82	A Year for Nanoscience. <i>ACS Nano</i> , 2014, 8, 11901-11903.	14.6	6
83	Thermophoresis of gold nanorods from surface enhanced Raman scattering and real-time Rayleigh scattering in solution. <i>Analytical Methods</i> , 2019, 11, 2482-2488.	2.7	6
84	Plasmonic Materials: A Plethora of Plasmonics from the Laboratory for Nanophotonics at Rice University (<i>Adv. Mater.</i> 36/2012). <i>Advanced Materials</i> , 2012, 24, 4774-4774.	21.0	5
85	Be Critical but Fair. <i>ACS Nano</i> , 2013, 7, 8313-8316.	14.6	5
86	Effects of Conformational Variation on Structural Insights from Solution-Phase Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2031-2041.	2.6	5
87	Resonance Raman scattering: nondestructive and noninvasive technique for structural and electronic characterization of isolated single-wall carbon nanotubes. <i>Brazilian Journal of Physics</i> , 2002, 32, 921-924.	1.4	4
88	Nanoscience and Nanotechnology Cross Borders. <i>ACS Nano</i> , 2017, 11, 1123-1126.	14.6	4
89	The orientation of a membrane probe from structural analysis by enhanced Raman scattering. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183109.	2.6	4
90	Compressive Hyperspectral Microscopy of Scattering and Fluorescence of Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2022, 126, 2614-2626.	3.1	4

#	ARTICLE	IF	CITATIONS
91	Photothermalysis by laser-induced microbubbles generated around gold nanorod clusters selectively formed in leukemia cells. , 2008, , .		3
92	We Take It Personally. ACS Nano, 2012, 6, 10417-10419.	14.6	3
93	Grand Plans for Nano. ACS Nano, 2015, 9, 11503-11505.	14.6	3
94	Nanocluster: photothermal bubble as optical probes for cytometric and microscopic applications. , 2007, , .		2
95	Exciting Times for Nano. ACS Nano, 2013, 7, 10437-10439.	14.6	1
96	A Big Year Ahead for Nano in 2018. ACS Nano, 2017, 11, 11755-11757.	14.6	1
97	General and Special Probes in Scanning Microscopies. , 2011, , 111-134.		1
98	General and Special Probes in Scanning Microscopies. , 2010, , 619-633.		1
99	ACS Nano in 2011 and Looking Forward to 2012. ACS Nano, 2011, 5, 9301-9302.	14.6	0
100	Someone Is Going To Pay for This. ACS Nano, 2012, 6, 4543-4544.	14.6	0
101	Sensing and Sensibility. ACS Nano, 2013, 7, 877-878.	14.6	0
102	Our First and Next Decades at ACS Nano. ACS Nano, 2017, 11, 7553-7555.	14.6	0
103	Probes in Scanning Microscopies. , 2004, , 371-384.		0
104	Probes in Scanning Microscopies. , 2004, , 371-384.		0
105	Probes in Scanning Microscopies. , 2007, , 637-650.		0
106	Probes in Scanning Microscopies. , 2008, , 111-133.		0