

N J Halas

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10942929/publications.pdf>

Version: 2024-02-01

49
papers

18,444
citations

87843

38
h-index

214721

47
g-index

49
all docs

49
docs citations

49
times ranked

18863
citing authors

#	ARTICLE	IF	CITATIONS
1	Spiers Memorial Lecture : Introductory lecture: Hot-electron science and microscopic processes in plasmonics and catalysis. Faraday Discussions, 2019, 214, 13-33.	1.6	27
2	Compact solar autoclave based on steam generation using broadband light-harvesting nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11677-11681.	3.3	421
3	Photodetection with Active Optical Antennas. Science, 2011, 332, 702-704.	6.0	1,760
4	Bethe-hole polarization analyser for the magnetic vector of light. Nature Communications, 2011, 2, 451.	5.8	83
5	Self-Assembled Plasmonic Nanoparticle Clusters. Science, 2010, 328, 1135-1138.	6.0	1,362
6	Connecting the dots: Reinventing optics for nanoscale dimensions. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 3643-3644.	3.3	41
7	Adenine ⁺ and Adenosine Monophosphate (AMP) ⁺ Gold Binding Interactions Studied by Surface-Enhanced Raman and Infrared Spectroscopies. Journal of Physical Chemistry C, 2009, 113, 14390-14397.	1.5	118
8	Plasmonics-based design: combining surface-enhanced Raman and IR spectroscopies into the same structure. , 2008, , .		0
9	Plasmonic interactions between a metallic nanoshell and a thin metallic film. Physical Review B, 2007, 76, .	1.1	71
10	Symmetry breaking in individual plasmonic nanoparticles. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 10856-10860.	3.3	270
11	Optimized plasmonic nanoparticle distributions for solar spectrum harvesting. Applied Physics Letters, 2006, 89, 153120.	1.5	179
12	Independent Optical Control of Microfluidic Valves Formed from Optomechanically Responsive Nanocomposite Hydrogels. Advanced Materials, 2005, 17, 1366-1368.	11.1	297
13	Plasmons in the Metallic Nanoparticle ⁺ Film System as a Tunable Impurity Problem. Nano Letters, 2005, 5, 2009-2013.	4.5	149
14	Surface-enhanced Raman scattering on tunable plasmonic nanoparticle substrates. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 17930-17935.	3.3	561
15	Chemical and Dielectric Manipulation of the Plasmonic Band Gap of Metallodielectric Arrays. Nano Letters, 2004, 4, 1497-1500.	4.5	12
16	A Hybridization Model for the Plasmon Response of Complex Nanostructures. Science, 2003, 302, 419-422.	6.0	3,531
17	Electronic Structure and Optical Properties of Gold Nanoshells. Nano Letters, 2003, 3, 1411-1415.	4.5	248
18	Controlling the surface enhanced Raman effect via the nanoshell geometry. Applied Physics Letters, 2003, 82, 257-259.	1.5	407

#	ARTICLE	IF	CITATIONS
19	Nanoshell-mediated near-infrared thermal therapy of tumors under magnetic resonance guidance. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13549-13554.	3.3	3,629
20	A Whole Blood Immunoassay Using Gold Nanoshells. Analytical Chemistry, 2003, 75, 2377-2381.	3.2	664
21	Metallodielectric gratings with subwavelength slots: Optical properties. Physical Review B, 2003, 68, .	1.1	104
22	Independent optically addressable nanoparticle-polymer optomechanical composites. Applied Physics Letters, 2002, 80, 4609-4611.	1.5	111
23	Light Interaction between Gold Nanoshells Plasmon Resonance and Planar Optical Waveguides. Journal of Physical Chemistry B, 2002, 106, 5609-5612.	1.2	46
24	Relative contributions to the plasmon line shape of metal nanoshells. Physical Review B, 2002, 66, .	1.1	201
25	Silver Nanoshells: Variations in Morphologies and Optical Properties. Journal of Physical Chemistry B, 2001, 105, 2743-2746.	1.2	475
26	Enhancing the active lifetime of luminescent semiconducting polymers via doping with metal nanoshells. Applied Physics Letters, 2001, 78, 1502-1504.	1.5	82
27	Adsorbate-Induced Quenching of Hot Electrons in Gold Core-Shell Nanoparticles. Journal of Physical Chemistry B, 2001, 105, 9913-9917.	1.2	40
28	Enhanced thermal stability of silica-encapsulated metal nanoshells. Applied Physics Letters, 2001, 79, 674-676.	1.5	68
29	Temperature-sensitive polymer-nanoshell composites for photothermally modulated drug delivery. Journal of Biomedical Materials Research Part B, 2000, 51, 293-298.	3.0	643
30	Applications of nanotechnology to biotechnology. Current Opinion in Biotechnology, 2000, 11, 215-217.	3.3	328
31	Temperature-sensitive polymer-nanoshell composites for photothermally modulated drug delivery. , 2000, 51, 293.		2
32	Observations of Anisotropic Electron Scattering on Graphite with a Low-Temperature Scanning Tunneling Microscope. Journal of Physical Chemistry B, 1999, 103, 1619-1622.	1.2	56
33	Light scattering from dipole and quadrupole nanoshell antennas. Applied Physics Letters, 1999, 75, 1063-1065.	1.5	213
34	Scanning Tunneling Microscopy and Spectroscopy of Dialkyl Disulfide Fullerenes Inserted into Alkanethiolate SAMs. Journal of Physical Chemistry B, 1999, 103, 8639-8642.	1.2	34
35	Infrared extinction properties of gold nanoshells. Applied Physics Letters, 1999, 75, 2897-2899.	1.5	517
36	Ultrafast electron dynamics in gold nanoshells. Physical Review B, 1998, 58, R10203-R10206.	1.1	94

#	ARTICLE	IF	CITATIONS
37	Effects of photo-oxidation on conjugated polymer films. Applied Physics Letters, 1997, 71, 1483-1485.	1.5	32
38	General vector basis function solution of Maxwell's equations. Physical Review E, 1997, 56, 1102-1112.	0.8	120
39	Plasmon Resonance Shifts of Au-Coated Au ₂ S Nanoshells: Insight into Multicomponent Nanoparticle Growth. Physical Review Letters, 1997, 78, 4217-4220.	2.9	648
40	Threefold Electron Scattering on Graphite Observed with C ₆₀ -Adsorbed STM Tips. Science, 1996, 273, 1371-1373.	6.0	100
41	Excimer Model for Photoluminescence in Single-Crystal C ₆₀ . The Journal of Physical Chemistry, 1996, 100, 2854-2861.	2.9	18
42	Direct observation of fullerene-adsorbed tips by scanning tunneling microscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 593.	1.6	30
43	High-purity vapor phase purification of C ₆₀ . Applied Physics Letters, 1994, 65, 374-376.	1.5	16
44	Diffusion of silver in C ₆₀ thin films. Applied Physics Letters, 1993, 63, 2438-2440.	1.5	27
45	Time-resolved reflectivity studies of the GaAs(100)/oxide and GaAs(100)/ZnSe interface. Applied Physics Letters, 1991, 59, 1476-1478.	1.5	2
46	Dark-Pulse Propagation in Optical Fibers. Physical Review Letters, 1988, 60, 29-32.	2.9	274
47	Ultrafast light-controlled optical-fiber modulator. Applied Physics Letters, 1987, 50, 886-888.	1.5	57
48	Subpicosecond optoelectronic study of resistive and superconductive transmission lines. Applied Physics Letters, 1987, 50, 350-352.	1.5	62
49	Generation of subpicosecond electrical pulses on coplanar transmission lines. Applied Physics Letters, 1986, 48, 751-753.	1.5	214