Baptiste AuguiÃ©

List of Publications by Year
in descending order

50 papers	5,377 citations	279798 23 h-index	223800 46 g-index
51 all docs	51 docs citations	51 times ranked	6421 citing authors

#	Article	IF	Citations
1	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	14.6	2,153
2	Collective Resonances in Gold Nanoparticle Arrays. Physical Review Letters, 2008, 101, 143902.	7.8	915
3	Intense Optical Activity from Threeâ€Dimensional Chiral Ordering of Plasmonic Nanoantennas. Angewandte Chemie - International Edition, 2011, 50, 5499-5503.	13.8	331
4	From individual to collective chirality in metal nanoparticles. Nano Today, 2011, 6, 381-400.	11.9	284
5	Fingers Crossed: Optical Activity of a Chiral Dimer of Plasmonic Nanorods. Journal of Physical Chemistry Letters, 2011, 2, 846-851.	4.6	204
6	Diffractive arrays of gold nanoparticles near an interface: Critical role of the substrate. Physical Review B, 2010, 82, .	3.2	193
7	Tamm Plasmon Resonance in Mesoporous Multilayers: Toward a Sensing Application. ACS Photonics, 2014, 1, 775-780.	6.6	171
8	Localized surface-plasmon resonances in periodic nondiffracting metallic nanoparticle and nanohole arrays. Physical Review B, 2009, 79, .	3.2	116
9	Modified optical absorption of molecules on metallic nanoparticles at sub-monolayer coverage. Nature Photonics, 2016, 10, 40-45.	31.4	115
10	Diffractive coupling in gold nanoparticle arrays and the effect of disorder. Optics Letters, 2009, 34, 401.	3.3	95
11	Sensitivity of Localized Surface Plasmon Resonances to Bulk and Local Changes in the Optical Environment. Journal of Physical Chemistry C, 2009, 113, 5120-5125.	3.1	94
12	Critical coupling to Tamm plasmons. Journal of Optics (United Kingdom), 2015, 17, 035003.	2.2	71
13	smarties: User-friendly codes for fast and accurate calculations of light scattering by spheroids. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 174, 39-55.	2.3	44
14	Combined SPR and SERS Microscopy in the Kretschmann Configuration. Journal of Physical Chemistry A, 2012, 116, 1000-1007.	2.5	43
15	Radiative correction in approximate treatments of electromagnetic scattering by point and body scatterers. Physical Review A, 2013, 87, .	2.5	43
16	Simple accurate approximations for the optical properties of metallic nanospheres and nanoshells. Physical Chemistry Chemical Physics, 2013, 15, 4233.	2.8	41
17	Microdroplet fabrication of silverâ€“agarose nanocomposite beads for SERS optical accumulation. Soft Matter, 2011, 7, 1321-1325.	2.7	39
18	Coreâ€“Shell Bimetallic Nanoparticle Trimers for Efficient Light-to-Chemical Energy Conversion. ACS Energy Letters, 2020, 5, 3881-3890.	17.4	37

#	Article	IF	Citations
19	Tailoring Plasmonic Bimetallic Nanocatalysts Toward Sunlightâ€Driven H₂ Production. Advanced Functional Materials, 2022, 32, .	14.9	33
20	Severe loss of precision in calculations of T-matrix integrals. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 524-535.	2.3	31
21	Ultralow chromatic dispersion measurement of optical fibers with a tunable fiber laser. IEEE Photonics Technology Letters, 2006, 18, 1825-1827.	2.5	26
22	A new numerically stable implementation of the T-matrix method for electromagnetic scattering by spheroidal particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 123, 153-168.	2.3	26
23	Accurate and convergent T-matrix calculations of light scattering by spheroids. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 160, 29-35.	2.3	26
24	Combined Extinction and Absorption UVâ€"Visible Spectroscopy as a Method for Revealing Shape Imperfections of Metallic Nanoparticles. Analytical Chemistry, 2019, 91, 14639-14648.	6.5	26
25	Numerical investigation of the Rayleigh hypothesis for electromagnetic scattering by a particle. Journal of Optics (United Kingdom), 2016, 18, 075007.	2.2	18
26	Simplified expressions of the T-matrix integrals for electromagnetic scattering. Optics Letters, 2011, 36, 3482.	3.3	17
27	CW measurements of resonance Raman profiles, lineâ€widths, and crossâ€sections of fluorescent dyes: application to Nile Blue A in water and ethanol. Journal of Raman Spectroscopy, 2013, 44, 573-581.	2.5	17
28	Mind the gap: testing the Rayleigh hypothesis in T-matrix calculations with adjacent spheroids. Optics Express, 2019, 27, 35750.	3.4	17
29	Electromagnetic interactions of dye molecules surrounding a nanosphere. Nanoscale, 2019, 11, 12177-12187.	5.6	15
30	Tiny Peaks vs Mega Backgrounds: A General Spectroscopic Method with Applications in Resonant Raman Scattering and Atmospheric Absorptions. Analytical Chemistry, 2012, 84, 7938-7945.	6.5	14
31	Approximate <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>T</mml:mi></mml:math> matrix and optical properties of spheroidal particles to third order with respect to size parameter. Physical Review A, 2019, 99, .	2.5	13
32	Optical Absorption of Dye Molecules in a Spherical Shell Geometry. Journal of Physical Chemistry C, 2018, 122, 19110-19115.	3.1	12
33	Modeling Molecular Orientation Effects in Dye-Coated Nanostructures Using a Thin-Shell Approximation of Mie Theory for Radially Anisotropic Media. ACS Photonics, 2018, 5, 5002-5009.	6.6	10
34	Spheroidal harmonic expansions for the solution of Laplace's equation for a point source near a sphere. Physical Review E, 2017, 95, 033307.	2.1	9
35	Realistic ports in integrating spheres: reflectance, transmittance, and angular redirection. Applied Optics, 2018, 57, 1581.	1.8	9
36	Electrostatic limit of the T-matrix for electromagnetic scattering: Exact results for spheroidal particles. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 200, 50-58.	2.3	9

#	Article	IF	Citations
37	Diffractive chains of plasmonic nanolenses: combining near-field focusing and collective enhancement mechanisms. Optics Letters, 2012, 37, 4624.	3.3	8
38	Synergetic Light-Harvesting and Near-Field Enhancement in Multiscale Patterned Gold Substrates. ACS Photonics, 2015, 2, 1355-1365.	6.6	8
39	Orientation averaging of optical chirality near nanoparticles and aggregates. Physical Review B, 2021, 103, .	3.2	8
40	Incorporation of porous protective layers as a strategy to improve mechanical stability of Tamm plasmon based detectors. Materials Advances, 2021, 2, 2719-2729.	5.4	6
41	Refined effective-medium model for the optical properties of nanoparticles coated with anisotropic molecules. Physical Review B, 2021, 103, .	3.2	6
42	Thin-shell approximation of Mie theory for a thin anisotropic layer spaced away from a spherical core: Application to dye-coated nanostructures. Physical Review A, 2021, 104, .	2.5	5
43	Orientation dependence of optical activity in light scattering by nanoparticle clusters. Materials Advances, 2022, 3, 1547-1555.	5.4	4
44	Comparison of dynamic corrections to the quasistatic polarizability and optical properties of small spheroidal particles. Journal of Chemical Physics, 2022, 156, 104110.	3.0	4
45	Effect of Molecular Position and Orientation on Adsorbate-Induced Shifts of Plasmon Resonances. Journal of Physical Chemistry C, 2022, 126, 10129-10138.	3.1	4
46	Laplaceâ€™s equation for a point source near a sphere: improved internal solution using spheroidal harmonics. IMA Journal of Applied Mathematics, 0, , .	1.6	2
47	Localised modes of sub-wavelength hole arrays in thin metal films. , 2008, , .		1
48	Development of a Surface-Plasmon Resonance Sensor Testbed for Bimetallic Sensors. , 2019, , .		1
49	Ultra-low Chromatic D= ispersion Measurement of Optical F. Ibers With a Tunable Fiber Laser. , 2006, , .		0
50	Distribution of the SERS enhancement factor on the surface of metallic nano-particles. , 2012, , .		0