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	Orientation dependence of optical activity in light scattering by nanoparticle clusters. Materials Advances, 2022, 3, 1547-1555.	5.4	4
2	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
3	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
4	Tailoring Plasmonic Bimetallic Nanocatalysts Toward Sunlightâ€Driven H₂ Production. Advanced Functional Materials, 2022, 32, .	14.9	33
5	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
6	Refined effective-medium model for the optical properties of nanoparticles coated with anisotropic molecules. Physical Review B, 2021, 103, .	3.2	6
7	Orientation averaging of optical chirality near nanoparticles and aggregates. Physical Review B, 2021, 103, .	3.2	8
8	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
9	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	14.6	2,153
10	Coreâ€“Shell Bimetallic Nanoparticle Trimers for Efficient Light-to-Chemical Energy Conversion. ACS Energy Letters, 2020, 5, 3881-3890.	17.4	37
11	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
12	Development of a Surface-Plasmon Resonance Sensor Testbed for Bimetallic Sensors. , 2019, , .		1
13	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
14	Electromagnetic interactions of dye molecules surrounding a nanosphere. Nanoscale, 2019, 11, 12177-12187.	5.6	15
15	Mind the gap: testing the Rayleigh hypothesis in T-matrix calculations with adjacent spheroids. Optics Express, 2019, 27, 35750.	3.4	17
16	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
17	Realistic ports in integrating spheres: reflectance, transmittance, and angular redirection. Applied Optics, 2018, 57, 1581.	1.8	9
18	Optical Absorption of Dye Molecules in a Spherical Shell Geometry. Journal of Physical Chemistry C, 2018, 122, 19110-19115.	3.1	12

#	Article	IF	Citations
19	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
20	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
21	Numerical investigation of the Rayleigh hypothesis for electromagnetic scattering by a particle. Journal of Optics (United Kingdom), 2016, 18, 075007.	2.2	18
22	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
23	Modified optical absorption of molecules on metallic nanoparticles at sub-monolayer coverage. Nature Photonics, 2016, 10, 40-45.	31.4	115
24	Critical coupling to Tamm plasmons. Journal of Optics (United Kingdom), 2015, 17, 035003.	2.2	71
25	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
26	Synergetic Light-Harvesting and Near-Field Enhancement in Multiscale Patterned Gold Substrates. ACS Photonics, 2015, 2, 1355-1365.	6.6	8
27	Tamm Plasmon Resonance in Mesoporous Multilayers: Toward a Sensing Application. ACS Photonics, 2014, 1, 775-780.	6.6	171
28	Radiative correction in approximate treatments of electromagnetic scattering by point and body scatterers. Physical Review A, 2013, 87, .	2.5	43
29	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
30	Simple accurate approximations for the optical properties of metallic nanospheres and nanoshells. Physical Chemistry Chemical Physics, 2013, 15, 4233.	2.8	41
31	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
32	Diffractive chains of plasmonic nanolenses: combining near-field focusing and collective enhancement mechanisms. Optics Letters, 2012, 37, 4624.	3.3	8
33	Distribution of the SERS enhancement factor on the surface of metallic nano-particles. , 2012, , .		0
34	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
35	Combined SPR and SERS Microscopy in the Kretschmann Configuration. Journal of Physical Chemistry A, 2012, 116, 1000-1007.	2.5	43
36	Severe loss of precision in calculations of T-matrix integrals. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 524-535.	2.3	31

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37	Microdroplet fabrication of silverâ€“agarose nanocomposite beads for SERS optical accumulation. Soft Matter, 2011, 7, 1321-1325.	2.7	39
38	Simplified expressions of the T-matrix integrals for electromagnetic scattering. Optics Letters, 2011, 36, 3482.	3.3	17
39	Fingers Crossed: Optical Activity of a Chiral Dimer of Plasmonic Nanorods. Journal of Physical Chemistry Letters, 2011, 2, 846-851.	4.6	204
40	From individual to collective chirality in metal nanoparticles. Nano Today, 2011, 6, 381-400.	11.9	284
41	Intense Optical Activity from Threeâ€Dimensional Chiral Ordering of Plasmonic Nanoantennas. Angewandte Chemie - International Edition, 2011, 50, 5499-5503.	13.8	331
42	Diffractive arrays of gold nanoparticles near an interface: Critical role of the substrate. Physical Review B, 2010, 82, .	3.2	193
43	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
44	Diffractive coupling in gold nanoparticle arrays and the effect of disorder. Optics Letters, 2009, 34, 401.	3.3	95
45	Localized surface-plasmon resonances in periodic nondiffracting metallic nanoparticle and nanohole arrays. Physical Review B, 2009, 79, .	3.2	116
46	Collective Resonances in Gold Nanoparticle Arrays. Physical Review Letters, 2008, 101, 143902.	7.8	915
47	Localised modes of sub-wavelength hole arrays in thin metal films. , 2008, , .		1
48	Ultralow chromatic dispersion measurement of optical fibers with a tunable fiber laser. IEEE Photonics Technology Letters, 2006, 18, 1825-1827.	2.5	26
49	Ultra-low Chromatic D= ispersion Measurement of Optical F. Ibers With a Tunable Fiber Laser. , 2006, , .		0
50	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