

JÃ©rÃ©my Butet

List of Publications by Year in descending order

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32
papers

2,123
citations

394286

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477173

29
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32
all docs

32
docs citations

32
times ranked

2746
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical Second Harmonic Generation in Plasmonic Nanostructures: From Fundamental Principles to Advanced Applications. ACS Nano, 2015, 9, 10545-10562.	7.3	455
2	Nanoscale topographical control of capillary assembly of nanoparticles. Nature Nanotechnology, 2017, 12, 73-80.	15.6	266
3	Optical Second Harmonic Generation of Single Metallic Nanoparticles Embedded in a Homogeneous Medium. Nano Letters, 2010, 10, 1717-1721.	4.5	221
4	Augmenting Second Harmonic Generation Using Fano Resonances in Plasmonic Systems. Nano Letters, 2013, 13, 1847-1851.	4.5	200
5	Numerical methods for nanophotonics: standard problems and future challenges. Laser and Photonics Reviews, 2015, 9, 577-603.	4.4	129
6	Sensing with Multipolar Second Harmonic Generation from Spherical Metallic Nanoparticles. Nano Letters, 2012, 12, 1697-1701.	4.5	119
7	Ultrasensitive Optical Shape Characterization of Gold Nanoantennas Using Second Harmonic Generation. Nano Letters, 2013, 13, 1787-1792.	4.5	88
8	Less Is More: Enhancement of Second-Harmonic Generation from Metasurfaces by Reduced Nanoparticle Density. Nano Letters, 2018, 18, 7709-7714.	4.5	77
9	Nonlinear Plasmonic Nanorulers. ACS Nano, 2014, 8, 4931-4939.	7.3	63
10	Mode analysis of second-harmonic generation in plasmonic nanostructures. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 768.	0.9	50
11	Enhancement Mechanisms of the Second Harmonic Generation from Double Resonant Aluminum Nanostructures. ACS Photonics, 2017, 4, 1522-1530.	3.2	50
12	Second-harmonic generation from periodic arrays of arbitrary shape plasmonic nanostructures: a surface integral approach. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2970.	0.9	46
13	Surface second-harmonic generation from coupled spherical plasmonic nanoparticles: Eigenmode analysis and symmetry properties. Physical Review B, 2014, 89, .	1.1	42
14	Mode Coupling in Plasmonic Heterodimers Probed with Electron Energy Loss Spectroscopy. ACS Nano, 2017, 11, 3485-3495.	7.3	42
15	Electronic Structure-Dependent Surface Plasmon Resonance in Single Au-Fe Nanoalloys. Nano Letters, 2019, 19, 5754-5761.	4.5	37
16	Evaluation of the nonlinear response of plasmonic metasurfaces: Miller's rule, nonlinear effective susceptibility method, and full-wave computation. Journal of the Optical Society of America B: Optical Physics, 2016, 33, A8.	0.9	34
17	Self-Similarity of Plasmon Edge Modes on Koch Fractal Antennas. ACS Nano, 2017, 11, 11240-11249.	7.3	33
18	Refractive index sensing with Fano resonant plasmonic nanostructures: a symmetry based nonlinear approach. Nanoscale, 2014, 6, 15262-15270.	2.8	28

#	ARTICLE	IF	CITATIONS
19	Where Does Energy Go in Electron Energy Loss Spectroscopy of Nanostructures?. ACS Photonics, 2017, 4, 156-164.	3.2	21
20	Wavevector-Selective Nonlinear Plasmonic Metasurfaces. Nano Letters, 2017, 17, 5258-5263.	4.5	20
21	Revealing a Mode Interplay That Controls Second-Harmonic Radiation in Gold Nanoantennas. ACS Photonics, 2017, 4, 2923-2929.	3.2	16
22	Dynamics of Second-Harmonic Generation in a Plasmonic Silver Nanorod. ACS Photonics, 2018, 5, 3246-3254.	3.2	15
23	Controlling the nonlinear optical properties of plasmonic nanoparticles with the phase of their linear response. Optics Express, 2016, 24, 17138.	1.7	14
24	Strong second-harmonic generation from Au-Al heterodimers. Nanoscale, 2019, 11, 23475-23481.	2.8	13
25	Second Harmonic Scattering from Silver Nanocubes. Journal of Physical Chemistry C, 2018, 122, 17447-17455.	1.5	12
26	Mode Evolution in Strongly Coupled Plasmonic Dolmens Fabricated by Templated Assembly. ACS Photonics, 2017, 4, 1661-1668.	3.2	11
27	Homogenization and Scattering Analysis of Second-Harmonic Generation in Nonlinear Metasurfaces. IEEE Transactions on Antennas and Propagation, 2018, 66, 6061-6075.	3.1	9
28	Second harmonic generation in glass-based metasurfaces using tailored surface lattice resonances. Nanophotonics, 2021, 10, 3465-3475.	2.9	8
29	Silencing the second harmonic generation from plasmonic nanodimers: A comprehensive discussion. Beilstein Journal of Nanotechnology, 2018, 9, 2674-2683.	1.5	4
30	Towards Efficient Nonlinear Plasmonic Metasurfaces. , 2019, , .		0
31	Sampling Optical Modes and Electronic States with Fast, Monochromated EELS. Microscopy and Microanalysis, 2020, 26, 1754-1755.	0.2	0
32	Second harmonic generation dynamics in plasmonic nanoparticles. , 2018, , .		0