Guillaume Baffou

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

55 papers	5,294 citations	29 h-index	58 g-index
58 ext. papers	6,378 ext. citations	9.1 avg, IF	6.42 L-index

#	Paper	IF	Citations
55	Optically-assisted thermophoretic reversible assembly of colloidal particles and E. coli using graphene oxide microstructures.. *Scientific Reports*, **2022**, 12, 3657	4.9	1
54	Anti-Stokes Thermometry in Nanoplasmonics. *ACS Nano*, **2021**, 15, 5785-5792	16.7	11
53	Quantitative phase microscopy using quadriwave lateral shearing interferometry (QLSI): principle, terminology, algorithm and grating shadow description. *Journal Physics D: Applied Physics*, **2021**, 54, 294002	3	8
52	Are bacteria claustrophobic? The problem of micrometric spatial confinement for the culturing of micro-organisms.. *RSC Advances*, **2021**, 11, 12500-12506	3.7	2
51	Metasurface Optical Characterization Using Quadriwave Lateral Shearing Interferometry. *ACS Photonics*, **2021**, 8, 603-613	6.3	7
50	Simple experimental procedures to distinguish photothermal from hot-carrier processes in plasmonics. *Light: Science and Applications*, **2020**, 9, 108	16.7	94
49	Optimal architecture for diamond-based wide-field thermal imaging. *AIP Advances*, **2020**, 10, 025027	1.5	2
48	Full optical characterization of single nanoparticles using quantitative phase imaging. *Optica*, **2020**, 7, 243	8.6	17
47	Adhesion layer influence on controlling the local temperature in plasmonic gold nanoholes. *Nanoscale*, **2020**, 12, 2524-2531	7.7	8
46	Quantifying the Role of the Surfactant and the Thermophoretic Force in Plasmonic Nano-optical Trapping. *Nano Letters*, **2020**, 20, 8811-8817	11.5	24
45	Applications and challenges of thermoplasmonics. *Nature Materials*, **2020**, 19, 946-958	27	102
44	Temperature Measurement in Plasmonic Nanoapertures Used for Optical Trapping. *ACS Photonics*, **2019**, 6, 1763-1773	6.3	35
43	Microscale Temperature Shaping Using Spatial Light Modulation on Gold Nanoparticles. *Scientific Reports*, **2019**, 9, 4644	4.9	5
42	Quantitative model of the image of a radiating dipole through a microscope. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2019**, 36, 478-484	1.8	9
41	Photothermal Control of Heat-Shock Protein Expression at the Single Cell Level. *Small*, **2018**, 14, e1801910	11	20
40	Isosbestic Thermoplasmonic Nanostructures. *ACS Photonics*, **2017**, 4, 1544-1551	6.3	10
39	Optical Imaging and Characterization of Graphene and Other 2D Materials Using Quantitative Phase Microscopy. *ACS Photonics*, **2017**, 4, 3130-3139	6.3	26

38	Thermoplasmonics: Heating Metal Nanoparticles Using Light **2017**,		83
37	Light-Assisted Solvothermal Chemistry Using Plasmonic Nanoparticles. *ACS Omega*, **2016**, 1, 2-8	3.9	39
36	Plasmonic efficiencies of nanoparticles made of metal nitrides (TiN, ZrN) compared with gold. *Scientific Reports*, **2016**, 6, 38647	4.9	78
35	Quantitative study of the photothermal properties of metallic nanowire networks. *ACS Nano*, **2015**, 9, 5551-8	16.7	38
34	Quantifying the Efficiency of Plasmonic Materials for Near-Field Enhancement and Photothermal Conversion. *Journal of Physical Chemistry C*, **2015**, 119, 25518-25528	3.8	105
33	Reply to: "Validating subcellular thermal changes revealed by fluorescent thermosensors" and "The 10(5) gap issue between calculation and measurement in single-cell thermometry". *Nature Methods* , **2015**, 12, 803	21.6	47
32	Shaping and patterning gold nanoparticles via micelle templated photochemistry. *Nanoscale*, **2015**, 7, 15814-21	7.7	11
31	Fluence Threshold for Photothermal Bubble Generation Using Plasmonic Nanoparticles. *Journal of Physical Chemistry C*, **2015**, 119, 28586-28596	3.8	111
30	Super-Heating and Micro-Bubble Generation around Plasmonic Nanoparticles under cw Illumination. *Journal of Physical Chemistry C*, **2014**, 118, 4890-4898	3.8	206
29	Fabrication of micropatterned arrays of gold nanoparticles for photothermal manipulation of living cells. *Methods in Cell Biology*, **2014**, 120, 155-69	1.8	
28	Deterministic temperature shaping using plasmonic nanoparticle assemblies. *Nanoscale*, **2014**, 6, 8984-9	7.7	29
27	A critique of methods for temperature imaging in single cells. *Nature Methods*, **2014**, 11, 899-901	21.6	151
26	Nanoplasmonics for chemistry. *Chemical Society Reviews*, **2014**, 43, 3898-907	58.5	474
25	Time-harmonic optical heating of plasmonic nanoparticles. *Physical Review B*, **2014**, 90,	3.3	26
24	Thermo-plasmonics: using metallic nanostructures as nano-sources of heat. *Laser and Photonics Reviews*, **2013**, 7, 171-187	8.3	800
23	Photoinduced heating of nanoparticle arrays. *ACS Nano*, **2013**, 7, 6478-88	16.7	251
22	Three-dimensional temperature imaging around a gold microwire. *Applied Physics Letters*, **2013**, 102, 244103	3.4	17
21	Quadriwave lateral shearing interferometry as a quantification tool for microscopy. Application to dry mass determination of living cells, temperature mapping, and vibrational phase imaging **2013**,		3

20	Thermal imaging of nanostructures by quantitative optical phase analysis. *ACS Nano*, **2012**, 6, 2452-8	16.7	149
19	Plasmonic nanoparticle networks for light and heat concentration. *ACS Nano*, **2012**, 6, 3434-40	16.7	70
18	Micropatterning thermoplasmonic gold nanoarrays to manipulate cell adhesion. *ACS Nano*, **2012**, 6, 7227-33	16.7	66
17	Mapping intracellular temperature using green fluorescent protein. *Nano Letters*, **2012**, 12, 2107-11	11.5	302
16	Quantitative absorption spectroscopy of nano-objects. *Physical Review B*, **2012**, 86,	3.3	18
15	Femtosecond-pulsed optical heating of gold nanoparticles. *Physical Review B*, **2011**, 84,	3.3	193
14	Plasmon-assisted optofluidics. *ACS Nano*, **2011**, 5, 5457-62	16.7	219
13	Mapping heat origin in plasmonic structures. *Physical Review Letters*, **2010**, 104, 136805	7.4	218
12	Thermoplasmonics modeling: A Green function approach. *Physical Review B*, **2010**, 82,	3.3	117
11	Nanoscale control of optical heating in complex plasmonic systems. *ACS Nano*, **2010**, 4, 709-16	16.7	484
10	Charge distribution induced inside complex plasmonic nanoparticles. *Optics Express*, **2010**, 18, 3035-44	3.3	36
9	SiC(0001) 3 x 3 heterochirality revealed by single-molecule STM imaging. *Journal of the American Chemical Society*, **2009**, 131, 3210-5	16.4	13
8	Temperature mapping near plasmonic nanostructures using fluorescence polarization anisotropy. *Optics Express*, **2009**, 17, 3291-8	3.3	130
7	Heat generation in plasmonic nanostructures: Influence of morphology. *Applied Physics Letters*, **2009**, 94, 153109	3.4	371
6	Shaping and manipulation of light fields with bottom-up plasmonic structures. *New Journal of Physics*, **2008**, 10, 105016	2.9	46
5	Scanning tunnelling microscopy imaging and spectroscopy of p-type degenerate 4H-SiC(0001). *Journal of Physics Condensed Matter*, **2005**, 17, 4015-4022	1.8	5
4	Thermodynamics of Metal Nanoparticles36-80		1
3	Numerical Simulation Techniques81-100		

2	Thermal Microscopy Techniques101-142		2
1	Microscale Thermophoresis in Liquids Induced by Plasmonic Heating and Characterized by Phase and Fluorescence Microscopies. *Journal of Physical Chemistry C*,	3.8	3