

# Pierre-François Brevet

## List of Publications by Year in descending order

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65  
papers

2,110  
citations

304368

22  
h-index

233125

45  
g-index

67  
all docs

67  
docs citations

67  
times ranked

2470  
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	Optical Second Harmonic Generation of Single Metallic Nanoparticles Embedded in a Homogeneous Medium. Nano Letters, 2010, 10, 1717-1721.	4.5	221
3	Multipolar second-harmonic generation in noble metal nanoparticles. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 955.	0.9	134
4	Sensing with Multipolar Second Harmonic Generation from Spherical Metallic Nanoparticles. Nano Letters, 2012, 12, 1697-1701.	4.5	119
5	Non-linear optical properties of gold quantum clusters. The smaller the better. Nanoscale, 2014, 6, 13572-13578.	2.8	108
6	Tuning Ag <sub>29</sub> nanocluster light emission from red to blue with one and two-photon excitation. Nanoscale, 2016, 8, 2892-2898.	2.8	75
7	Harmonic generation at the nanoscale. Journal of Applied Physics, 2020, 127, .	1.1	65
8	Surface Second Harmonic Generation of Cationic Water-Soluble Porphyrins at the Polarized Water   1,2-Dichloroethane Interface. Langmuir, 2002, 18, 6647-6652.	1.6	49
9	Au <sub>10</sub> (SG) <sub>10</sub> : A Chiral Gold Catenane Nanocluster with Zero Confined Electrons. Optical Properties and First-Principles Theoretical Analysis. Journal of Physical Chemistry Letters, 2017, 8, 1979-1985.	2.1	49
10	Isomeric Effect of Mercaptobenzoic Acids on the Synthesis, Stability, and Optical Properties of Au <sub>25</sub> (MBA) <sub>18</sub> Nanoclusters. ACS Omega, 2018, 3, 15635-15642.	1.6	42
11	Ligand-core NLO-phores: a combined experimental and theoretical approach to the two-photon absorption and two-photon excited emission properties of small-ligated silver nanoclusters. Nanoscale, 2017, 9, 1221-1228.	2.8	40
12	Wavelength dependence of the hyper Rayleigh scattering response from gold nanoparticles. Journal of Chemical Physics, 2004, 120, 10748-10752.	1.2	39
13	Multipolar Contributions to the Second Harmonic Response from Mixed DiA~SDS Molecular Aggregates. Journal of Physical Chemistry C, 2008, 112, 2716-2723.	1.5	35
14	Hyper Rayleigh scattering of protein-mediated gold nanoparticles aggregates. Chemical Physics Letters, 2008, 450, 345-349.	1.2	34
15	Salt-induced Long-to-Short Range Orientational Transition in Water. Physical Review Letters, 2018, 120, 263001.	2.9	33
16	Effect of the Dielectric Core and Embedding Medium on the Second Harmonic Generation from Plasmonic Nanoshells: Tunability and Sensing. Journal of Physical Chemistry C, 2013, 117, 1172-1177.	1.5	32
17	Hyper-Rayleigh Scattering from Gold Nanorods. Journal of Physical Chemistry C, 2014, 118, 609-616.	1.5	31
18	Two-photon absorption of ligand-protected Ag <sub>15</sub> nanoclusters. Towards a new class of nonlinear optics nanomaterials. Physical Chemistry Chemical Physics, 2016, 18, 12404-12408.	1.3	31

#	ARTICLE	IF	CITATIONS
19	Nonlinear Mie theory for the second harmonic generation in metallic nanoshells. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 2213.	0.9	28
20	Chiral supramolecular gold-cysteine nanoparticles: Chiroptical and nonlinear optical properties. <i>Progress in Natural Science: Materials International</i> , 2016, 26, 455-460.	1.8	27
21	Bulky Counterions: Enhancing the Two-Photon Excited Fluorescence of Gold Nanoclusters. <i>ChemPhysChem</i> , 2018, 19, 165-168.	1.0	25
22	Ligand shell size effects on one- and two-photon excitation fluorescence of zwitterion functionalized gold nanoclusters. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23916-23921.	1.3	24
23	Three-dimensional mapping of single gold nanoparticles embedded in a homogeneous transparent matrix using optical second-harmonic generation. <i>Optics Express</i> , 2010, 18, 22314.	1.7	23
24	Investigating the Interaction of Crystal Violet Probe Molecules on Sodium Dodecyl Sulfate Micelles with Hyper-Rayleigh Scattering. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5383-5387.	1.2	21
25	A Bottom-Up Approach to Build the Hyperpolarizability of Peptides and Proteins from their Amino Acids. <i>Journal of Physical Chemistry B</i> , 2013, 117, 9877-9881.	1.2	21
26	Second harmonic scattering from mass characterized 2D graphene oxide sheets. <i>Chemical Communications</i> , 2020, 56, 3859-3862.	2.2	20
27	Symmetry Cancellations in the Quadratic Hyperpolarizability of Non-Centrosymmetric Gold Decahedra. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 874-880.	2.1	19
28	Four orders-of-magnitude enhancement in the two-photon excited photoluminescence of homoleptic gold thiolate nanoclusters following zinc ion-induced aggregation. <i>Nanoscale</i> , 2021, 13, 4439-4443.	2.8	19
29	An Experimental and Theoretical Study on the Effect of Silver Nanoparticles Concentration on the Structural, Morphological, Optical, and Electronic Properties of TiO <sub>2</sub> Nanocrystals. <i>Crystals</i> , 2021, 11, 1488.	1.0	19
30	Nonlinear Refraction and Absorption of Ag <sub>29</sub> Nanoclusters: Evidence for Two-Photon Absorption Saturation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18682-18689.	1.5	18
31	Sub-100 nanometer silver doped gold-cysteine supramolecular assemblies with enhanced nonlinear optical properties. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12091-12099.	1.3	17
32	Functionalized Au <sub>15</sub> nanoclusters as luminescent probes for protein carbonylation detection. <i>Communications Chemistry</i> , 2021, 4, .	2.0	16
33	PalmitateLuciferin: A Molecular Design for the Second Harmonic Generation Study of Ion Complexation at the Air-Water Interface. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7450-7456.	1.5	14
34	Tracking Molecular Aggregates at a Liquid Interface by Nonlinear Correlation Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1135-1141.	1.5	14
35	Electroosmosis near surfactant laden liquid-air interfaces. <i>Soft Matter</i> , 2018, 14, 2604-2609.	1.2	14
36	Second Harmonic Scattering from Silver Nanocubes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17447-17455.	1.5	12

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37	Supramolecular chirality at the air/water interface [Invited]. <i>Optical Materials Express</i> , 2011, 1, 17.	1.6	11
38	Influence of the tyrosine environment on the second harmonic generation of iturinic antimicrobial lipopeptides at the air/water interface. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19919.	1.3	11
39	Polarization-resolved second harmonic generation from LiNbO <sub>3</sub> powders. <i>Optical Materials</i> , 2020, 107, 110169.	1.7	10
40	Long-Range Orientational Organization of Dipolar and Steric Liquids. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9869-9875.	2.1	10
41	Second-Harmonic Scattering-Defined Topological Classes for Nano-Objects. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25303-25308.	1.5	9
42	Universal scaling of plasmon coupling in metal nanostructures: Checking the validity for higher plasmonic modes using second harmonic generation. <i>Physical Review B</i> , 2013, 87, .	1.1	8
43	Multi-scale modeling of mycosubtilin lipopeptides at the air/water interface: structure and optical second harmonic generation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 2136-2148.	1.3	7
44	Analysis of the second harmonic generation signal from a liquid/air and liquid/liquid interface. <i>Journal of Chemical Physics</i> , 2017, 146, 144701.	1.2	7
45	Rationale Strategy to Tune the Optical Properties of Gold Catenane Nanoclusters by Doping with Silver Atoms. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19368-19374.	1.5	7
46	Ordering and Nonideality of Air/water Ionic Liquid Interfaces in Surface Second Harmonic Generation. <i>Journal of Physical Chemistry B</i> , 2020, 124, 3954-3961.	1.2	7
47	Nonlinear optical signature of nanostructural transition in ionic liquids. <i>Journal of Molecular Liquids</i> , 2021, 322, 114976.	2.3	7
48	Gold-seeded Lithium Niobate Nanoparticles: Influence of Gold Surface Coverage on Second Harmonic Properties. <i>Nanomaterials</i> , 2021, 11, 950.	1.9	7
49	Reversibility of the supramolecular chirality of bridged binaphthol derivatives at the air-water interface. <i>Optical Materials Express</i> , 2014, 4, 2516.	1.6	6
50	Two dimensional diffusion-controlled triplet-triplet annihilation kinetics. <i>Chemical Science</i> , 2019, 10, 7633-7640.	3.7	6
51	Two photon excited fluorescence and hyper Rayleigh scattering of Protoporphyrin IX. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 402, 112812.	2.0	6
52	Adverse Role of Shape and Size in Second-Harmonic Scattering from Gold Nanoprisms. <i>Journal of Physical Chemistry C</i> , 2020, 124, 14797-14803.	1.5	6
53	First hyperpolarizability of water at the air/water vapor interface: a QM/MM study questions standard experimental approximations. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 24932-24941.	1.3	6
54	Second-Harmonic Scattering from Metallic Nanoparticles in a Random Medium. <i>ACS Photonics</i> , 2017, 4, 262-267.	3.2	5

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55	Intermixing of Chirality and Local Structure in the Second Harmonic Generation Response of Dibenzo[ <i>c,h</i> ]acridine Helicene-Like Molecule Thin Films. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24759-24765.	1.5	5
56	Second Harmonic Scattering of Molecular Aggregates. <i>Symmetry</i> , 2021, 13, 206.	1.1	5
57	Covalent anchoring of atomically precise glutathione-protected gold nanoclusters on graphene oxide nanosheets. <i>Nano Express</i> , 2020, 1, 030005.	1.2	5
58	Reorientation of the helix of the tryptophan-rich gp41W peptide from HIV-1 at interfaces. <i>Journal of Chemical Physics</i> , 2013, 139, 225105.	1.2	4
59	Fluorescence-free First Hyperpolarizability Values of Fluorescent Proteins and Channel Rhodopsins. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 400, 112658.	2.0	4
60	Multistep Micellization of Standard Surfactants Evidenced by Second Harmonic Scattering. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10876-10881.	1.2	4
61	Longitudinal position dependence of the second-harmonic generation of optically trapped silica microspheres. <i>Optics Letters</i> , 2020, 45, 3196.	1.7	1
62	Hyper-Rayleigh scattering of adenine, thymine, and cytosine in neat water. <i>Journal of Chemical Physics</i> , 2021, 155, 204306.	1.2	1
63	Shape-Controlled Second-Harmonic Scattering from Gold Nanotetrapods. <i>Journal of Physical Chemistry C</i> , 2022, 126, 9831-9835.	1.5	1
64	Bulky Counterions: Enhancing the Two-Photon Excited Fluorescence of Gold Nanoclusters. <i>ChemPhysChem</i> , 2018, 19, 164-164.	1.0	0
65	A Tentative Comprehensive Overview of the Second Harmonic Generation from Plasmonic Nanoparticles. , 2019, , .		0