

Pierre-François Brevet

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

2,110
citations

304602

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233338

45
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docs citations

67
times ranked

2470
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Shape-Controlled Second-Harmonic Scattering from Gold Nanotetrapods. <i>Journal of Physical Chemistry C</i> , 2022, 126, 9831-9835. | 1.5 | 1 |
| 2 | Nonlinear optical signature of nanostructural transition in ionic liquids. <i>Journal of Molecular Liquids</i> , 2021, 322, 114976. | 2.3 | 7 |
| 3 | Second Harmonic Scattering of Molecular Aggregates. <i>Symmetry</i> , 2021, 13, 206. | 1.1 | 5 |
| 4 | 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 |
| 5 | 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 |
| 6 | Gold-seeded Lithium Niobate Nanoparticles: Influence of Gold Surface Coverage on Second Harmonic Properties. <i>Nanomaterials</i> , 2021, 11, 950. | 1.9 | 7 |
| 7 | Functionalized Au ₁₅ nanoclusters as luminescent probes for protein carbonylation detection. <i>Communications Chemistry</i> , 2021, 4, . | 2.0 | 16 |
| 8 | Multistep Micellization of Standard Surfactants Evidenced by Second Harmonic Scattering. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10876-10881. | 1.2 | 4 |
| 9 | An Experimental and Theoretical Study on the Effect of Silver Nanoparticles Concentration on the Structural, Morphological, Optical, and Electronic Properties of TiO ₂ Nanocrystals. <i>Crystals</i> , 2021, 11, 1488. | 1.0 | 19 |
| 10 | Hyper-Rayleigh scattering of adenine, thymine, and cytosine in neat water. <i>Journal of Chemical Physics</i> , 2021, 155, 204306. | 1.2 | 1 |
| 11 | Polarization-resolved second harmonic generation from LiNbO ₃ powders. <i>Optical Materials</i> , 2020, 107, 110169. | 1.7 | 10 |
| 12 | 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 |
| 13 | 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 |
| 14 | Long-Range Orientational Organization of Dipolar and Steric Liquids. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9869-9875. | 2.1 | 10 |
| 15 | Harmonic generation at the nanoscale. <i>Journal of Applied Physics</i> , 2020, 127, . | 1.1 | 65 |
| 16 | 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 |
| 17 | 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 |
| 18 | Second harmonic scattering from mass characterized 2D graphene oxide sheets. <i>Chemical Communications</i> , 2020, 56, 3859-3862. | 2.2 | 20 |

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|----|---|-----|-----------|
| 19 | Ordering and Nonideality of Airâ€“Ionic Liquid Interfaces in Surface Second Harmonic Generation. <i>Journal of Physical Chemistry B</i> , 2020, 124, 3954-3961. | 1.2 | 7 |
| 20 | Covalent anchoring of atomically precise glutathione-protected gold nanoclusters on graphene oxide nanosheets. <i>Nano Express</i> , 2020, 1, 030005. | 1.2 | 5 |
| 21 | Longitudinal position dependence of the second-harmonic generation of optically trapped silica microspheres. <i>Optics Letters</i> , 2020, 45, 3196. | 1.7 | 1 |
| 22 | Two dimensional diffusion-controlled tripletâ€“triplet annihilation kinetics. <i>Chemical Science</i> , 2019, 10, 7633-7640. | 3.7 | 6 |
| 23 | A Tentative Comprehensive Overview of the Second Harmonic Generation from Plasmonic Nanoparticles. , 2019, , . | | 0 |
| 24 | Second-Harmonic Scattering-Defined Topological Classes for Nano-Objects. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25303-25308. | 1.5 | 9 |
| 25 | Sub-100 nanometer silver doped goldâ€“cysteine supramolecular assemblies with enhanced nonlinear optical properties. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12091-12099. | 1.3 | 17 |
| 26 | 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 |
| 27 | Bulky Counterions: Enhancing the Two-Photon Excited Fluorescence of Gold Nanoclusters. <i>ChemPhysChem</i> , 2018, 19, 164-164. | 1.0 | 0 |
| 28 | Electroosmosis near surfactant laden liquidâ€“air interfaces. <i>Soft Matter</i> , 2018, 14, 2604-2609. | 1.2 | 14 |
| 29 | Bulky Counterions: Enhancing the Twoâ€“Photon Excited Fluorescence of Gold Nanoclusters. <i>ChemPhysChem</i> , 2018, 19, 165-168. | 1.0 | 25 |
| 30 | Isomeric Effect of Mercaptobenzoic Acids on the Synthesis, Stability, and Optical Properties of Au₂₅(MBA)₁₈ Nanoclusters. <i>ACS Omega</i> , 2018, 3, 15635-15642. | 1.6 | 42 |
| 31 | Salt-induced Long-to-Short Range Orientational Transition in Water. <i>Physical Review Letters</i> , 2018, 120, 263001. | 2.9 | 33 |
| 32 | Nonlinear Refraction and Absorption of Ag₂₉ Nanoclusters: Evidence for Two-Photon Absorption Saturation. <i>Journal of Physical Chemistry C</i> , 2018, 122, 18682-18689. | 1.5 | 18 |
| 33 | Second Harmonic Scattering from Silver Nanocubes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17447-17455. | 1.5 | 12 |
| 34 | Au10(SG)10: A Chiral Gold Catenane Nanocluster with Zero Confined Electrons. Optical Properties and First-Principles Theoretical Analysis. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1979-1985. | 2.1 | 49 |
| 35 | 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 |
| 36 | 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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|----|---|-----|-----------|
| 37 | 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. <i>Nanoscale</i> , 2017, 9, 1221-1228. | 2.8 | 40 |
| 38 | Intermixing of Chirality and Local Structure in the Second Harmonic Generation Response of Dibenzo[<i>c</i>]acridine Helicene-Like Molecule Thin Films. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24759-24765. | 1.5 | 5 |
| 39 | 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 |
| 40 | Tuning Ag ₂₉ nanocluster light emission from red to blue with one and two-photon excitation. <i>Nanoscale</i> , 2016, 8, 2892-2898. | 2.8 | 75 |
| 41 | Two-photon absorption of ligand-protected Ag ₁₅ nanoclusters. Towards a new class of nonlinear optics nanomaterials. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12404-12408. | 1.3 | 31 |
| 42 | Optical Second Harmonic Generation in Plasmonic Nanostructures: From Fundamental Principles to Advanced Applications. <i>ACS Nano</i> , 2015, 9, 10545-10562. | 7.3 | 455 |
| 43 | 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 |
| 44 | Hyper-Rayleigh Scattering from Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2014, 118, 609-616. | 1.5 | 31 |
| 45 | Non-linear optical properties of gold quantum clusters. The smaller the better. <i>Nanoscale</i> , 2014, 6, 13572-13578. | 2.8 | 108 |
| 46 | 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 |
| 47 | 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 |
| 48 | 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 |
| 49 | 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 |
| 50 | Effect of the Dielectric Core and Embedding Medium on the Second Harmonic Generation from Plasmonic Nanoshells: Tunability and Sensing. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1172-1177. | 1.5 | 32 |
| 51 | 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 |
| 52 | 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 |
| 53 | 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 |
| 54 | 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 |

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|----|---|-----|-----------|
| 55 | Sensing with Multipolar Second Harmonic Generation from Spherical Metallic Nanoparticles. Nano Letters, 2012, 12, 1697-1701. | 4.5 | 119 |
| 56 | Supramolecular chirality at the air/water interface [Invited]. Optical Materials Express, 2011, 1, 17. | 1.6 | 11 |
| 57 | Symmetry Cancellations in the Quadratic Hyperpolarizability of Non-Centrosymmetric Gold Decahedra. Journal of Physical Chemistry Letters, 2010, 1, 874-880. | 2.1 | 19 |
| 58 | Three-dimensional mapping of single gold nanoparticles embedded in a homogeneous transparent matrix using optical second-harmonic generation. Optics Express, 2010, 18, 22314. | 1.7 | 23 |
| 59 | Optical Second Harmonic Generation of Single Metallic Nanoparticles Embedded in a Homogeneous Medium. Nano Letters, 2010, 10, 1717-1721. | 4.5 | 221 |
| 60 | Hyper Rayleigh scattering of protein-mediated gold nanoparticles aggregates. Chemical Physics Letters, 2008, 450, 345-349. | 1.2 | 34 |
| 61 | Multipolar second-harmonic generation in noble metal nanoparticles. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 955. | 0.9 | 134 |
| 62 | 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 |
| 63 | Investigating the Interaction of Crystal Violet Probe Molecules on Sodium Dodecyl Sulfate Micelles with Hyper-Rayleigh Scattering. Journal of Physical Chemistry B, 2005, 109, 5383-5387. | 1.2 | 21 |
| 64 | Wavelength dependence of the hyper Rayleigh scattering response from gold nanoparticles. Journal of Chemical Physics, 2004, 120, 10748-10752. | 1.2 | 39 |
| 65 | 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 |