Camilla Ferrante

List of Publications by Year
in descending order

68 papers	2,439 citations	201674 27 h-index	197818 49 g-index
71 all docs	71 docs citations	71 times ranked	3244 citing authors

#	Article	IF	Citations
1	Dissipative self-assembly of vesicular nanoreactors. Nature Chemistry, 2016, 8, 725-731.	13.6	355
2	Novel Heterocycle-Based Two-Photon Absorbing Dyes. Organic Letters, 2002, 4, 1495-1498.	4.6	195
3	Assessment of Water-Soluble Ï€-Extended Squaraines as One- and Two-Photon Singlet Oxygen Photosensitizers:â€‰ Design, Synthesis, and Characterization. Journal of the American Chemical Society, 2008, 130, 1894-1902.	13.7	152
4	Novel heteroaromatic-based multi-branched dyes with enhanced two-photon absorption activityElectronic supplementary information (ESI) available: Experimental section. See http://www.rsc.org/suppdata/cc/b3/b305995b/. Chemical Communications, 2003, , 2144.	4.1	122
5	Strong Enhancement of the Two-Photon Absorption of Tetrakis(4-sulfonatophenyl)porphyrin Diacid in Water upon Aggregation. Journal of Physical Chemistry B, 2005, 109, 2-5.	2.6	122
6	Spectroscopic Insights into Carbon Dot Systems. Journal of Physical Chemistry Letters, 2017, 8, 2236-2242.	4.6	111
7	Does diphenylacetylene (tolan) fluoresce from its second excited singlet state? Semiempirical MO calculations and fluorescence quantum yield measurements. The Journal of Physical Chemistry, 1993, 97, 13457-13463.	2.9	97
8	Vibrational anharmonicity and multilevel vibrational dephasing from vibrational echo beats. Journal of Chemical Physics, 1997, 106, 10027-10036.	3.0	85
9	Enhancement of Two-Photon Absorption Cross-Section and Singlet-Oxygen Generation in Porphyrins upon Î²-Functionalization with Donorâ"Acceptor Substituents. Organic Letters, 2006, 8, 2719-2722.	4.6	71
10	Evaluation of gold nanoparticles toxicity towards human endothelial cells under static and flow conditions. Microvascular Research, 2015, 97, 147-155.	2.5	64
11	Large third-order nonlinear optical response of porphyrin J-aggregates oriented in self-assembled thin films. Journal of Materials Chemistry, 2006, 16, 1573.	6.7	63
12	The polarizability in solution of tetra-phenyl-porphyrin derivatives in their excited electronic states: a PCM/TD-DFT study. Physical Chemistry Chemical Physics, 2009, 11, 4664.	2.8	61
13	Indolic Squaraines as Two-Photon Absorbing Dyes in the Visible Region: X-ray Structure, Electrochemical, and Nonlinear Optical Characterization. Chemistry of Materials, 2008, 20, 3242-3244.	6.7	56
14	Influence of Confinement on the Solvation and Rotational Dynamics of Coumarin 153 in Ethanol. Journal of Physical Chemistry A, 2003, 107, 2422-2430.	2.5	47
15	Solvation dynamics of nile blue in ethanol confined in porous solâ€"gel glasses. Journal of Chemical Physics, 2001, 114, 5781-5791.	3.0	46
16	Systems biology identifies preserved integrity but impaired metabolism of mitochondria due to a glycolytic defect in Alzheimer's disease neurons. Aging Cell, 2019, 18, e12924.	6.7	46
17	Influence of Excitonic Interactions on the Transient Absorption and Two-Photon Absorption Spectra of Porphyrin J-Aggregates in the NIR Region. Journal of Physical Chemistry C, 2007, 111, 18636-18645.	3.1	42
18	Effective Two-Photon Absorption Cross Section of Heteroaromatic Quadrupolar Dyes:â€‰ Dependence on Measurement Technique and Laser Pulse Characteristics. Journal of Physical Chemistry A, 2008, 112, 4224-4234.	2.5	41

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19	Dimers of polar chromophores in solution: role of excitonic interactions in one- and two-photon absorption properties. Physical Chemistry Chemical Physics, 2011, 13, 11099.	2.8	39
20	Highly Charged Ruthenium(II) Polypyridyl Complexes as Effective Photosensitizer in Photodynamic Therapy. Chemistry - A European Journal, 2019, 25, 10606-10615.	3.3	39
21	Temporal Control over Transient Chemical Systems using Structurally Diverse Chemical Fuels. Chemistry - A European Journal, 2017, 23, 11549-11559.	3.3	33
22	Electronic dephasing in nonpolar room temperature liquids: UV photon echo pulse duration dependent measurements. Journal of Chemical Physics, 1997, 106, 7498-7511.	3.0	32
23	Boosting carbon quantum dots/fullerene electron transfer via surface group engineering. Physical Chemistry Chemical Physics, 2016, 18, 31286-31295.	2.8	31
24	The Elusive Nature of Carbon Nanodot Fluorescence: An Unconventional Perspective. Journal of Physical Chemistry C, 2020, 124, 22314-22320.	3.1	31
25	One- and Two-Photon Absorption and Emission Properties of a Zn(II) Chemosensor. Journal of Physical Chemistry A, 2006, 110, 6459-6464.	2.5	29
26	Two-photon absorption of Zn(ii) octupolar molecules. Physical Chemistry Chemical Physics, 2007, 9, 2999.	2.8	28
27	Enhancing the efficiency of two-photon absorption by metal coordination. Physical Chemistry Chemical Physics, 2009, 11, 9450.	2.8	28
28	Multipolar symmetric squaraines with large two-photon absorption cross-sections in the NIR region. Physical Chemistry Chemical Physics, 2011, 13, 12087.	2.8	26
29	Influence of shear stress and size on viability of endothelial cells exposed to gold nanoparticles. Journal of Nanoparticle Research, 2017, 19, 316.	1.9	25
30	Large two photon absorption cross section of asymmetric Zn(II) porphyrin complexes substituted in the meso or Î² pyrrolic position by â€“CCâ€“C6H4X moieties (X=NMe2, NO2). Chemical Physics Letters, 2008, 454, 70-74.	2.6	24
31	Design and synthesis of heterocyclic multi-branched dyes for two-photon absorption. Synthetic Metals, 2003, 139, 795-797.	3.9	22
32	Dimers of Quadrupolar Chromophores in Solution: Electrostatic Interactions and Optical Spectra. Journal of Physical Chemistry B, 2010, 114, 882-893.	2.6	22
33	Two-photon absorption properties of Zn(II) complexes: Unexpected large TPA cross section of dipolar [ZnY2(4,4â€²-bis(para-di-n-butylaminostyryl)-2,2â€²-bipyridine)] (Y=Cl, CF3CO2). Chemical Physics Letters, 2009, 475, 245-249.	2.6	21
34	Two-photon absorption properties and¹O₂generation ability of Ir complexes: an unexpected large cross section of [Ir(CO)₂Cl(4-(para-di-n-butylaminostyryl)pyridine)]. Dalton Transactions, 2015, 44, 15712-15720.	3.3	21
35	Nucleotideâ€Selective Templated Selfâ€Assembly of Nanoreactors under Dissipative Conditions. Angewandte Chemie - International Edition, 2020, 59, 22223-22229.	13.8	21
36	Integrated Approach for Modeling the Emission Fluorescence of 4-(N,N-Dimethylamino)benzonitrile in Polar Environments. Journal of Physical Chemistry B, 2008, 112, 8106-8113.	2.6	15

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37	mCerulean3-Based Cameleon Sensor to Explore Mitochondrial Ca2+ Dynamics InÂVivo. IScience, 2019, 16, 340-355.	4.1	15
38	Vibrational echo studies of pure dephasing: Mechanisms in liquids and glasses. Chemical Physics Letters, 1997, 276, 217-223.	2.6	13
39	Photophysics and Dynamics of Surface Plasmon Polaritons-Mediated Energy Transfer in the Presence of an Applied Electric Field. Journal of the American Chemical Society, 2012, 134, 10061-10070.	13.7	13
40	Engineering interactions in QDsâ€“PCBM blends: a surface chemistry approach. Nanoscale, 2018, 10, 11913-11922.	5.6	13
41	Time-gated fluorescence signalling under dissipative conditions. Chemical Communications, 2020, 56, 13979-13982.	4.1	12
42	Two-Photon Fluorescence Correlation Spectroscopy of Gold Nanoparticles under Stationary and Flow Conditions. Journal of Physical Chemistry C, 2014, 118, 24081-24090.	3.1	11
43	Dynamic Antifouling of Catalytic Pores Armed with Oxygenic Polyoxometalates. Advanced Materials Interfaces, 2015, 2, 1500034.	3.7	11
44	Excited state absorption of fullerenes measured by the photoacoustic calorimetry techniqueDedicated to Professor Silvia Braslavsky, to mark her great contribution to photochemistry and photobiology particularly in the field of photothermal methods.. Photochemical and Photobiological Sciences, 2003, 2, 801.	2.9	10
45	A fullereneâ€“distyrylbenzene photosensitizer for two-photon promoted singlet oxygen production. Physical Chemistry Chemical Physics, 2010, 12, 4656.	2.8	10
46	Time correlated fluorescence characterization of an asymmetrically focused flow in a microfluidic device. Microfluidics and Nanofluidics, 2011, 10, 551-561.	2.2	10
47	Solvation Dynamics of Rhodamine 700 in the Nematogenic Liquid Octylcyanobiphenyl. Journal of Physical Chemistry B, 1999, 103, 931-937.	2.6	9
48	Temperature Dependence of Solvation Dynamics in Alkylcyanobiphenyls. Journal of Physical Chemistry A, 2001, 105, 5734-5742.	2.5	8
49	Nucleotideâ€Selective Templated Selfâ€Assembly of Nanoreactors under Dissipative Conditions. Angewandte Chemie, 2020, 132, 22407-22413.	2.0	7
50	Multiresonance CARS spectra and excitation profiles of dye molecules in liquid solutions: 1,4-dihydroxy-anthraquinone in chloroform. Chemical Physics Letters, 1990, 175, 156-162.	2.6	6
51	Stepwise Hierarchical Selfâ€Assembly of Supramolecular Amphiphiles into Higherâ€Order Threeâ€Dimensional Nanostructures. ChemNanoMat, 2018, 4, 821-830.	2.8	6
52	Optical limiting based on multiphoton processes in carbon nanostructures and heterocyclic quadrupolar molecules. , 2003, , .		4
53	A microfluidic optical beam steerer. Microfluidics and Nanofluidics, 2014, 16, 47-53.	2.2	4
54	An integrated approach for the interpretation of emission fluorescence of DMABN-Crown derivatives in polar environments. Chemical Physics Letters, 2008, 467, 204-209.	2.6	2

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55	An optofluidic light detector based on the photoacoustic effect. Sensors and Actuators B: Chemical, 2016, 233, 71-75.	7.8	2
56	Resonance CARS of conjugated molecules in condensed phase. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1992, 14, 1015-1022.	0.4	1
57	One- and two-photon absorption and emission properties of heteroaromatic bichromophores. , 2008, , .		1
58	Interpretation of the emission fluorescence spectra of two fluoroionophores: DMABNâ€Crown4 and DMABNâ€Crown5. International Journal of Quantum Chemistry, 2010, 110, 368-375.	2.0	1
59	BSA adsorption on gold nanoparticles investigated under static and flow conditions. , 2015, , .		1
60	Multiresonance FWM as a probe of spectral broadening mechanisms: influence of excited state dynamics on resonance CARS processes. Journal of Luminescence, 1992, 53, 537-540.	3.1	0
61	Photon echo experiments on 3â€“3â€² diethylthiacarbocyanine in glass-forming liquids with ultrafast laser pulses. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1998, 20, 175-189.	0.4	0
62	Characteristics of Solvation Dynamics of Rhodamine 700 in Cyanobiphenyls. Molecular Crystals and Liquid Crystals, 1999, 331, 155-163.	0.3	0
63	Novel Heteroaromatic-Based Multi-Branched Dyes with Enhanced Two-Photon Absorption Activity. ChemInform, 2003, 34, no.	0.0	0
64	Strong Enhancement of the Two Photon Absorption Cross Section of Porphyrin J-Aggregates in water. Materials Research Society Symposia Proceedings, 2004, 846, DD2.7.1.	0.1	0
65	Lifetime Shortening and Fast Energyâ€Transfer Processes upon Dimerization of a Aâ€Ïâ€Dâ€Ïâ€A Molecule. ChemPhysChem, 2014, 15, 310-319.	2.1	0
66	FLIM-FRET analysis using Ca²⁺ sensors in HeLa cells. , 2015, , .		0
67	Strategy for the improvement of mixing in microdevices. Houille Blanche, 2011, 97, 79-85.	0.3	0
68	Multiresonance CARS spectra of quinizarin in chloroform solution. Journal of Chemical Sciences, 1991, 103, 383-387.	1.5	0