

# RenÃ© A Nome

## List of Publications by Year in descending order

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47  
papers

733  
citations

567281

15  
h-index

552781

26  
g-index

56  
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56  
docs citations

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times ranked

1052  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen peroxide disproportionation: time-resolved optical measurements of spectra, scattering and imaging combined with correlation analysis and simulations. <i>Journal of Molecular Structure</i> , 2022, 1251, 131992.	3.6	1
2	Editorial: Integrating Timescales From Molecules Up. <i>Frontiers in Chemistry</i> , 2021, 9, 680533.	3.6	0
3	Femtosecond laser induced luminescence in hierarchically structured NdIII, YbIII, ErIII co-doped upconversion nanoparticles: Light-matter interaction mechanisms from experiments and simulations. <i>Journal of Luminescence</i> , 2021, 234, 117953.	3.1	5
4	“On the fly” evaluation of upconversion nanoparticle power dependence from individual stochastic trajectories. , 2021, , .		1
5	Influence of the Vibrational Modes from the Organic Moieties in 2D Lead Halides on Excitonic Recombination and Phase Transition. <i>Advanced Optical Materials</i> , 2020, 8, 2001431.	7.3	19
6	Anion binding to surfactant aggregates: AuCl <sub>4</sub> <sup>-</sup> in cationic, anionic and zwitterionic micelles. <i>Journal of Molecular Liquids</i> , 2020, 314, 113607.	4.9	9
7	Low-frequency stimulated Raman spectroscopy measurements at electrochemical interfaces. , 2020, , .		0
8	Real time single TiO <sub>2</sub> nanoparticle monitoring of the photodegradation of methylene blue. <i>Solar Energy</i> , 2019, 190, 239-245.	6.1	10
9	TIMPZ: An Exquisite Building Block for Metal/Hydrogen Coordination Polymers. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 2291-2294.	2.0	1
10	Integrating ultrafast and stochastic dynamics studies of Brownian motion in molecular systems and colloidal particles. <i>Current Opinion in Colloid and Interface Science</i> , 2019, 44, 208-219.	7.4	1
11	Correlating structural dynamics and catalytic activity of AgAu nanoparticles with ultrafast spectroscopy and all-atom molecular dynamics simulations. <i>Faraday Discussions</i> , 2018, 208, 269-286.	3.2	5
12	Toward Heterogeneously Catalyzed Detoxification of Phosphotriesters: Insights from Kinetics and Theoretical Calculations. <i>Journal of Physical Chemistry C</i> , 2018, 122, 25530-25538.	3.1	3
13	Enhanced reproducibility of planar perovskite solar cells by fullerene doping with silver nanoparticles. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	20
14	Application of new nanoparticle structures as catalysts: general discussion. <i>Faraday Discussions</i> , 2018, 208, 575-593.	3.2	1
15	The challenges of characterising nanoparticulate catalysts: general discussion. <i>Faraday Discussions</i> , 2018, 208, 339-394.	3.2	5
16	Compact arrangement for femtosecond laser induced generation of broadband hard x-ray pulses. , 2018, , .		1
17	Supramolecular Polymer/Surfactant Complexes as Catalysts for Phosphate Transfer Reactions. <i>ACS Catalysis</i> , 2017, 7, 2230-2239.	11.2	31
18	Rich stochastic dynamics of co-doped Er:Yb fluorescence upconversion nanoparticles in the presence of thermal, non-conservative, harmonic and optical forces. <i>Methods and Applications in Fluorescence</i> , 2017, 5, 014005.	2.3	4

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19	Characterizing Slow Photochemical Reaction Kinetics by Enhanced Sampling of Rare Events with Capillary Optical Fibers and Kramers's Theory. ACS Omega, 2017, 2, 2719-2727.	3.5	5
20	Rich stochastic dynamics of co-doped Er:Yb fluorescence upconversion nanoparticles in the presence of thermal, non-conservative, harmonic and optical forces. , 2017, , .		0
21	Ultrafast Dynamics of Au Nanopyramid Interfaces Prepared by Nanosphere Lithography: Effect of Substrate Chemical Composition. Journal of the Brazilian Chemical Society, 2015, , .	0.6	2
22	Effective targeting of proton transfer at ground and excited states of ortho-(2-imidazolyl)naphthol constitutional isomers. Physical Chemistry Chemical Physics, 2015, 17, 2404-2415.	2.8	13
23	Ethyl stearate: ethanol binary mixtures investigated by ultrafast OKE spectroscopy, optical microscopy, dynamic light scattering, and rheology. Journal of Physical Organic Chemistry, 2014, 27, 316-321.	1.9	3
24	Confocal microscopy and femtosecond-based second-harmonic generation characterization of the interaction of chromium ions with environmental surfaces. Current Opinion in Colloid and Interface Science, 2013, 18, 47-53.	7.4	1
25	Facile control of system-bath interactions and the formation of crystalline phases of poly[(9,9-dioctylfluorenyl-2,7-diyl)-alt-co-(9,9-di-{5-pentanyl}-fluorenyl-2,7-diyl)] in silicone-based polymer hosts. European Polymer Journal, 2013, 49, 693-705.	5.4	11
26	Towards in situ fluorescence spectroscopy and microscopy investigations of asphaltene precipitation kinetics. Optics Express, 2013, 21, 30874.	3.4	11
27	Interaction of Cr <sup>3+</sup> with Silica Gel at the Aqueous Interface Using Fluorescence in Sodium Dodecyl Sulfate Micelles and Confocal Fluorescence Microscopy. Journal of Physical Chemistry C, 2012, 116, 3517-3523.	3.1	13
28	Electronic energy transfer between poly(9,9-dihexylfluorene-2,7-diyl) and MEH-PPV: A photophysical study in solutions and in the solid state. Synthetic Metals, 2011, 161, 2154-2161.	3.9	4
29	Interaction between an organic dye in water and sand packs in a flume system. Environmental Toxicology and Chemistry, 2010, 29, 2426-2431.	4.3	4
30	Ultrafast dynamics of solvation: the story so far. Journal of the Brazilian Chemical Society, 2010, 21, 2189-2204.	0.6	17
31	Spectral tuning in photoactive yellow protein by modulation of the shape of the excited state energy surface. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 5821-5826.	7.1	33
32	Controlling Plasmonic Wave Packets in Silver Nanowires. Nano Letters, 2010, 10, 3389-3394.	9.1	36
33	Quantitative Treatment of Magnesium Ion Adsorption at the $\gamma$ -Al <sub>2</sub> O <sub>3</sub> /Water Interface. Journal of Physical Chemistry C, 2010, 114, 15078-15083.	3.1	9
34	Plasmonic Interactions and Optical Forces between Au Bipyramidal Nanoparticle Dimers. Journal of Physical Chemistry A, 2009, 113, 4408-4415.	2.5	63
35	Assessing the dephasing dynamics of water from linear field-resolved pulse propagation experiments and simulations in highly absorbing solutions. Journal of Chemical Physics, 2008, 129, 224502.	3.0	5
36	Axis-dependent anisotropy in protein unfolding from integrated nonequilibrium single-molecule experiments, analysis, and simulation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 20799-20804.	7.1	27

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37	Field-resolved measurement of reaction-induced spectral densities by polarizability response spectroscopy. <i>Journal of Chemical Physics</i> , 2007, 127, 184505.	3.0	29
38	Field-Resolved Coherent Raman Spectroscopy of High Frequency Vibrational Resonances. <i>Journal of Physical Chemistry A</i> , 2006, 110, 10925-10928.	2.5	10
39	Distribution of hexavalent Cr species across the clay mineral surface-water interface. <i>Journal of Colloid and Interface Science</i> , 2006, 296, 465-471.	9.4	50
40	Resolving the emission times of solute and solvent four-wave mixing signals by spectral interferometry. <i>Journal of Chemical Physics</i> , 2006, 125, 031101.	3.0	15
41	Single-molecule detection of structural changes during Per-Arnt-Sim (PAS) domain activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 11561-11566.	7.1	33
42	Optical coherence and theoretical study of the excitation dynamics of a highly symmetric cyclophane-linked oligophenylenevinylene dimer. <i>Journal of Chemical Physics</i> , 2006, 124, 194904.	3.0	47
43	Two-Color Electric Field Resolved Transient Grating Spectroscopy of an Oligophenylenevinylene Dimer. , 2006, , .		0
44	Synthesis, crystal structure and properties of dinuclear iron(III) complexes containing terminally coordinated phenolate/H <sub>2</sub> O/OH <sup>-</sup> groups as models for purple acid phosphatases: efficient hydrolytic DNA cleavage. <i>Inorganica Chimica Acta</i> , 2005, 358, 339-351.	2.4	52
45	Phosphate Diester Hydrolysis and DNA Damage Promoted by Newcis-Aqua/Hydroxy Copper(II) Complexes Containing Tridentate Imidazole-rich Ligands. <i>Inorganic Chemistry</i> , 2003, 42, 8353-8365.	4.0	108
46	Theoretical framework for the distribution of trace metals among the operationally defined speciation phases of a sediment. <i>Environmental Toxicology and Chemistry</i> , 2001, 20, 693-697.	4.3	12
47	Confocal Fluorescence Microscopy and Kinetics of the Cr <sup>3+</sup> -Chromate Ion Oxidation Equilibria at the Solid Liquid Interface. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	0