Julien Guthmuller

List of Publications by Year
in descending order

33 papers	1,327 citations	331670 21 h-index	361022 35 g-index
39 all docs	39 docs citations	39 times ranked	1384 citing authors

#	Article	IF	Citations
1	Photochemical Fate: The First Step Determines Efficiency of H₂ Formation with a Supramolecular Photocatalyst. Angewandte Chemie - International Edition, 2010, 49, 3981-3984.	13.8	162
2	Palladium versus Platinum: The Metal in the Catalytic Center of a Molecular Photocatalyst Determines the Mechanism of the Hydrogen Production with Visible Light. Angewandte Chemie - International Edition, 2015, 54, 5044-5048.	13.8	112
3	Optimization of Hydrogenâ€Evolving Photochemical Molecular Devices. Angewandte Chemie - International Edition, 2015, 54, 6627-6631.	13.8	96
4	Analysis and characterization of coordination compounds by resonance Raman spectroscopy. Coordination Chemistry Reviews, 2012, 256, 1479-1508.	18.8	95
5	Time dependent density functional theory investigation of the resonance Raman properties of the julolidinemalononitrile push-pull chromophore in various solvents. Journal of Chemical Physics, 2007, 127, 164507.	3.0	93
6	Resonance Raman Scattering of Rhodamine 6G as Calculated by Time-Dependent Density Functional Theory:â€‰ Vibronic and Solvent Effects. Journal of Physical Chemistry A, 2008, 112, 3215-3223.	2.5	87
7	Protonation effects on the resonance Raman properties of a novel (terpyridine)Ru(4H-imidazole) complex: an experimental and theoretical case study. Physical Chemistry Chemical Physics, 2011, 13, 15580.	2.8	54
8	Multimode simulation of dimer absorption spectra from first principles calculations: Application to the 3,4,9,10-perylenetetracarboxylic diimide dimer. Journal of Chemical Physics, 2009, 131, 154302.	3.0	50
9	Resonance-Raman spectro-electrochemistry of intermediates in molecular artificial photosynthesis of bimetallic complexes. Chemical Communications, 2014, 50, 5227.	4.1	48
10	Simulation of the resonance Raman intensities of a rutheniumâ€“palladium photocatalyst by time dependent density functional theory. Physical Chemistry Chemical Physics, 2010, 12, 14812.	2.8	47
11	An Assessment of RASSCF and TDDFT Energies and Gradients on an Organic Donorâ€“Acceptor Dye Assisted by Resonance Raman Spectroscopy. Journal of Chemical Theory and Computation, 2013, 9, 543-554.	5.3	38
12	Comparison of simplified sum-over-state expressions to calculate resonance Raman intensities including Franck-Condon and Herzberg-Teller effects. Journal of Chemical Physics, 2016, 144, 064106.	3.0	35
13	Assessment of TD-DFT and CC2 Methods for the Calculation of Resonance Raman Intensities: Application to o-Nitrophenol. Journal of Chemical Theory and Computation, 2011, 7, 1082-1089.	5.3	34
14	Photophysics of Ru(II) Dyads Derived from Pyrenyl-Substitued Imidazo[4,5-f][1,10]phenanthroline Ligands. Journal of Physical Chemistry A, 2015, 119, 3986-3994.	2.5	34
15	A Novel Ru(II) Polypyridine Black Dye Investigated by Resonance Raman Spectroscopy and TDDFT Calculations. Journal of Physical Chemistry C, 2012, 116, 19968-19977.	3.1	30
16	Synthesis and characterization of ruthenium and rhenium dyes with phosphonate anchoring groups. Dalton Transactions, 2016, 45, 9216-9228.	3.3	27
17	Theoretical Assessment of Excited State Gradients and Resonance Raman Intensities for the Azobenzene Molecule. Journal of Chemical Theory and Computation, 2017, 13, 1263-1274.	5.3	26
18	Ultrafast Intramolecular Relaxation and Waveâ€Packet Motion in a Rutheniumâ€Based Supramolecular Photocatalyst. Chemistry - A European Journal, 2015, 21, 7668-7674.	3.3	24

#	Article	IF	Citations
19	Effect of the Catalytic Center on the Electron Transfer Dynamics in Hydrogen-Evolving Ruthenium-Based Photocatalysts Investigated by Theoretical Calculations. Journal of Physical Chemistry C, 2019, 123, 16003-16013.	3.1	15
20	Effects of Bromine Doping on the Structural Properties and Band Gap of CH₃NH₃Pb(I_{1â€“x}Br_x)₃ Perovskite. ACS Omega, 2020, 5, 26946-26953.	3.5	15
21	Theoretical Investigation of the Electronâ€Transfer Dynamics and Photodegradation Pathways in a Hydrogenâ€Evolving Rutheniumâ€“Palladium Photocatalyst. Chemistry - A European Journal, 2018, 24, 11166-11176.	3.3	12
22	Excited state properties of a series of molecular photocatalysts investigated by time dependent density functional theory. Physical Chemistry Chemical Physics, 2019, 21, 9052-9060.	2.8	12
23	Redox State Sensitive Spectroscopy of the Model Compound [(H-dcbpy)₂Ru^{II}(NCS)₂]^{2â€“} (dcbpy =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	3.3	11
24	Radiative lifetime of a BODIPY dye as calculated by TDDFT and EOM-CCSD methods: solvent and vibronic effects. Physical Chemistry Chemical Physics, 2021, 23, 26324-26335.	2.8	11
25	Synthesis and hydrogen evolving catalysis of a panchromatic photochemical molecular device. Sustainable Energy and Fuels, 2020, 4, 619-624.	4.9	9
26	Ï€-Stacking attraction vs. electrostatic repulsion: competing supramolecular interactions in a tpphz-bridged Ru(<scp>ii</scp>)/Au(<scp>iii</scp>) complex. Dalton Transactions, 2016, 45, 12846-12853.	3.3	7
27	CLICK 'n' Sleep: Lightâ€Switch Behavior of Triazoleâ€Containing Tris(bipyridyl)ruthenium Complexes. European Journal of Inorganic Chemistry, 2016, 2016, 4958-4963.	2.0	7
28	The role of Herzberg-Teller effects on the resonance Raman spectrum of trans-porphycene investigated by time dependent density functional theory. Journal of Chemical Physics, 2018, 148, 124107.	3.0	7
29	Electronic state spectroscopy by high-resolution vacuum ultraviolet photoabsorption, He(I) photoelectron spectroscopy and ab initio calculations of ethyl acetate. European Physical Journal D, 2016, 70, 1.	1.3	5
30	Lightâ€Driven Multiâ€Charge Separation in a Pushâ€Pull Rutheniumâ€Based Photosensitizer â€“ Assessed by RASSCF and TDDFT Simulations. ChemPhotoChem, 2022, 6, .	3.0	4
31	Influence of Orientational Disorder on the Optical Absorption Properties of the Hybrid Metalâ€Halide Perovskite CH₃NH₃PbI₃. ChemPhysChem, 2019, 20, 3228-3237.	2.1	2
32	Sum-over-state expressions including second-order Herzbergâ€“Teller effects for the calculation of absorption and resonance Raman intensities. Journal of Chemical Physics, 2021, 155, 084107.	3.0	2
33	Frontispiece: Palladium versus Platinum: The Metal in the Catalytic Center of a Molecular Photocatalyst Determines the Mechanism of the Hydrogen Production with Visible Light. Angewandte Chemie - International Edition, 2015, 54, .	13.8	0