

Hugo Gattuso

List of Publications by Year in descending order

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35
papers

764
citations

430754

18
h-index

580701

25
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35
all docs

35
docs citations

35
times ranked

1517
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast fs coherent excitonic dynamics in CdSe quantum dots assemblies addressed and probed by 2D electronic spectroscopy. <i>Journal of Chemical Physics</i> , 2021, 154, 014301.	1.2	13
2	Quantum Device Emulates the Dynamics of Two Coupled Oscillators. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6990-6995.	2.1	16
3	Massively parallel classical logic via coherent dynamics of an ensemble of quantum systems with dispersion in size. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21022-21030.	3.3	11
4	Room-Temperature Inter-Dot Coherent Dynamics in Multilayer Quantum Dot Materials. <i>Journal of Physical Chemistry C</i> , 2020, 124, 16222-16231.	1.5	27
5	Coherent Exciton Dynamics in Ensembles of Size-Dispersed CdSe Quantum Dot Dimers Probed via Ultrafast Spectroscopy: A Quantum Computational Study. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1328.	1.3	12
6	Targeting G-quadruplexes with Organic Dyes: Chelerythrine's DNA Binding Elucidated by Combining Molecular Modeling and Optical Spectroscopy. <i>Antioxidants</i> , 2019, 8, 472.	2.2	15
7	Induced Night Vision by Singlet-Oxygen-Mediated Activation of Rhodopsin. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7133-7140.	2.1	14
8	Covalent Cross-Linking as an Enabler for Structural Mass Spectrometry. <i>Analytical Chemistry</i> , 2019, 91, 12808-12818.	3.2	3
9	Charge Transfer versus Charge-Separated Triplet Excited States of [Re ^I (dmp)(CO) ₃ (His124)(Trp122)] ⁺ in Water and in Modified <i>Pseudomonas aeruginosa</i> Azurin Protein. <i>Chemistry - A European Journal</i> , 2019, 25, 2519-2526.	1.7	8
10	Quantum Phenomena in Nanomaterials: Coherent Superpositions of Fine Structure States in CdSe Nanocrystals at Room Temperature. <i>Journal of Physical Chemistry C</i> , 2019, 123, 31286-31293.	1.5	31
11	Novel Molecular-Dynamics-Based Protocols for Phase Space Sampling in Complex Systems. <i>Frontiers in Chemistry</i> , 2018, 6, 495.	1.8	28
12	Dynamics of the excited-state hydrogen transfer in a (dG) ⁺ ·(dC) homopolymer: intrinsic photostability of DNA. <i>Chemical Science</i> , 2018, 9, 7902-7911.	3.7	29
13	Accurate Estimation of the Standard Binding Free Energy of Netropsin with DNA. <i>Molecules</i> , 2018, 23, 228.	1.7	85
14	Absorption Spectroscopy and Photophysics of a Re ^I -dppz Probe for DNA-Mediated Charge Transport. <i>Chemistry - A European Journal</i> , 2018, 24, 14425-14435.	1.7	9
15	Steady-State Linear and Non-linear Optical Spectroscopy of Organic Chromophores and Bio-macromolecules. <i>Frontiers in Chemistry</i> , 2018, 6, 86.	1.8	16
16	Photophysics of chlorin e6: from one- and two-photon absorption to fluorescence and phosphorescence. <i>RSC Advances</i> , 2017, 7, 10992-10999.	1.7	36
17	Conformational polymorphism or structural invariance in DNA photoinduced lesions: implications for repair rates. <i>Nucleic Acids Research</i> , 2017, 45, 3654-3662.	6.5	17
18	Simulating the Electronic Circular Dichroism Spectra of Photoreversible Peptide Conformations. <i>Journal of Chemical Theory and Computation</i> , 2017, 13, 3290-3296.	2.3	15

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19	Excited-states of a rhenium carbonyl diimine complex: solvation models, spin-orbit coupling, and vibrational sampling effects. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27240-27250.	1.3	40
20	Ibuprofen and ketoprofen potentiate UVA-induced cell death by a photosensitization process. <i>Scientific Reports</i> , 2017, 7, 8885.	1.6	19
21	Photophysics of the Singlet Oxygen Sensor Green Chromophore: Self-Production of 1O_2 Explained by Molecular Modeling. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7586-7592.	1.2	7
22	Deciphering the photosensitization mechanisms of hypericin towards biological membranes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23187-23193.	1.3	18
23	From non-covalent binding to irreversible DNA lesions: Nile blue and Nile red as photosensitizing agents. <i>Scientific Reports</i> , 2016, 6, 28480.	1.6	24
24	Thermodynamics of DNA: sensitizer recognition. Characterizing binding motifs with all-atom simulations. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 33180-33186.	1.3	10
25	Fluorene-imidazole dyes excited states from first-principles calculations – Topological insights. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	0.5	16
26	Repair Rate of Clustered Abasic DNA Lesions by Human Endonuclease: Molecular Bases of Sequence Specificity. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3760-3765.	2.1	30
27	Correlation of bistranded clustered abasic DNA lesion processing with structural and dynamic DNA helix distortion. <i>Nucleic Acids Research</i> , 2016, 44, 8588-8599.	6.5	37
28	Two-photon-absorption DNA sensitization via solvated electron production: unraveling photochemical pathways by molecular modeling and simulation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 18598-18606.	1.3	20
29	Hydrogen abstraction by photoexcited benzophenone: consequences for DNA photosensitization. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7829-7836.	1.3	24
30	Nile blue and Nile red optical properties predicted by TD-DFT and CASPT2 methods: static and dynamic solvent effects. <i>Theoretical Chemistry Accounts</i> , 2016, 135, 1.	0.5	22
31	Circular Dichroism of DNA G-Quadruplexes: Combining Modeling and Spectroscopy To Unravel Complex Structures. <i>Journal of Physical Chemistry B</i> , 2016, 120, 3113-3121.	1.2	42
32	DNA Photosensitization by an α -Insider: Photophysics and Triplet Energy Transfer of 5-Methyl-2-pyrimidone Deoxyribonucleoside. <i>Chemistry - A European Journal</i> , 2015, 21, 11509-11516.	1.7	19
33	Interaction of Iron II Complexes with B-DNA. Insights from Molecular Modeling, Spectroscopy, and Cellular Biology. <i>Frontiers in Chemistry</i> , 2015, 3, 67.	1.8	9
34	Modeling DNA electronic circular dichroism by QM/MM methods and Frenkel Hamiltonian. <i>Theoretical Chemistry Accounts</i> , 2015, 134, 1.	0.5	22
35	QM/MM modeling of Harmaline cation fluorescence spectrum in water solution and interacting with DNA. <i>Computational and Theoretical Chemistry</i> , 2014, 1040-1041, 367-372.	1.1	20