

Alberto Mezzetti

List of Publications by Year in descending order

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papers

972
citations

394421

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h-index

477307

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docs citations

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times ranked

1102
citing authors

#	ARTICLE	IF	CITATIONS
1	The Essential Role of the N-Terminal Domain of the Orange Carotenoid Protein in Cyanobacterial Photoprotection: Importance of a Positive Charge for Phycobilisome Binding. <i>Plant Cell</i> , 2012, 24, 1972-1983.	6.6	82
2	Light-adapted charge-separated state of photosystem II: structural and functional dynamics of the closed reaction center. <i>Plant Cell</i> , 2021, 33, 1286-1302.	6.6	74
3	Photochemistry of metal complexes of 3-hydroxyflavone: towards a better understanding of the influence of solar light on the metal-soil organic matter interactions. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 109-119.	2.9	49
4	Hydrogen bonding properties of DMSO in ground-state formation and optical spectra of 3-hydroxyflavone anion. <i>Chemical Physics Letters</i> , 2008, 467, 88-93.	2.6	47
5	Protic equilibria as the key factor of quercetin emission in solution. Relevance to biochemical and analytical studies. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 6858.	2.8	47
6	Environmental effects on vibrational properties of carotenoids: experiments and calculations on peridinin. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20954.	2.8	45
7	The Unique Photophysical Properties of the Peridinin-Chlorophyll-a-Protein. <i>Current Protein and Peptide Science</i> , 2014, 15, 332-350.	1.4	35
8	Solvent effects on the photophysics and photoreactivity of 3-hydroxyflavone: A combined spectroscopic and kinetic study. <i>Journal of Molecular Liquids</i> , 2015, 205, 110-114.	4.9	35
9	Rapid-scan Fourier transform infrared spectroscopy shows coupling of GLu-L212 protonation and electron transfer to QB in <i>Rhodobacter sphaeroides</i> reaction centers. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2002, 1553, 320-330.	1.0	32
10	Photoreduction of the quinone pool in the bacterial photosynthetic membrane: identification of infrared marker bands for quinol formation. <i>FEBS Letters</i> , 2003, 537, 161-165.	2.8	32
11	A Tyrosyl Radical in an Irradiated Single Crystal of N-Acetyl-L-tyrosine Studied by X-band cw-EPR, High-Frequency EPR, and ENDOR Spectroscopies. <i>Journal of Physical Chemistry A</i> , 1999, 103, 9636-9643.	2.5	31
12	Role of solute-solvent hydrogen bonds on the ground state and the excited state proton transfer in 3-hydroxyflavone. A systematic spectrophotometry study. <i>Photochemical and Photobiological Sciences</i> , 2018, 17, 923-933.	2.9	29
13	Effects of dehydration on light-induced conformational changes in bacterial photosynthetic reaction centers probed by optical and differential FTIR spectroscopy. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 328-339.	1.0	28
14	Time-resolved infrared spectroscopy in the study of photosynthetic systems. <i>Photosynthesis Research</i> , 2017, 131, 121-144.	2.9	28
15	Investigation of ubiquinol formation in isolated photosynthetic reaction centers by rapid-scan Fourier transform IR spectroscopy. <i>European Biophysics Journal</i> , 2005, 34, 921-936.	2.2	27
16	Monitoring and Interpretation of Photoinduced Biochemical Processes by Rapid-Scan FTIR Difference Spectroscopy and Hybrid Hard and Soft Modeling. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6031-6040.	2.6	27
17	Fermi Resonance as a Tool for Probing Peridinin Environment. <i>Journal of Physical Chemistry B</i> , 2014, 118, 5873-5881.	2.6	24
18	Two-Step Structural Changes in Orange Carotenoid Protein Photoactivation Revealed by Time-Resolved Fourier Transform Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2019, 123, 3259-3266.	2.6	24

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19	Ubiquinol formation in isolated photosynthetic reaction centres monitored by time-resolved differential FTIR in combination with 2D correlation spectroscopy and multivariate curve resolution. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 1999-2014.	3.7	22
20	Time-resolved step scan FTIR spectroscopy and DFT investigation on triplet formation in peridininâ€“chlorophyll-<i>a</i>â€“protein from <i>Amphidinium carterae</i> at low temperature. <i>Spectroscopy</i> , 2008, 22, 235-250.	0.8	20
21	Polarizable QM/Classical Approaches for the Modeling of Solvation Effects on UVâ€“Vis and Fluorescence Spectra: An Integrated Strategy. <i>Journal of Physical Chemistry A</i> , 2018, 122, 390-397.	2.5	20
22	Time-resolved step-scan FTIR investigation on the primary donor of the reaction center from the green sulfur bacterium <i>Chlorobium tepidum</i> . <i>Photosynthesis Research</i> , 2003, 75, 161-169.	2.9	18
23	Wavelength shifting systems based on flavonols and their metal complexes encapsulated by post-doping in porous SiO ₂ xerogel matrices. <i>Journal of Molecular Structure</i> , 2011, 993, 485-490.	3.6	17
24	Dehydration affects the electronic structure of the primary electron donor in bacterial photosynthetic reaction centers: evidence from visible-NIR and light-induced difference FTIR spectroscopy. <i>Photochemical and Photobiological Sciences</i> , 2015, 14, 238-251.	2.9	16
25	One Step up the Ladder of Prebiotic Complexity: Formation of Nonrandom Linear Polypeptides from Binary Systems of Amino Acids on Silica. <i>Chemistry - A European Journal</i> , 2019, 25, 1275-1285.	3.3	16
26	A New Method for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:msub><mml:mtext>D</mml:mtext><mml:mtext>2</mml:mtext></mml:msub><mml:mtext>O</mml:mtext></mml:math> xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M2"><mml:msub><mml:mtext>H</mml:mtext><mml:mtext>2</mml:mtext></mml:msub><mml:mtext>O</mml:mtext></mml:math> in Infrared Spectroscopy of Proteins. <i>Spectroscopy</i> , 2012, 27, 337-342.	0.8	14
27	Any colour you like. Excited state and ground state proton transfer in flavonols and applications. <i>Photochemistry</i> , 0, , 295-322.	0.2	13
28	Light-Induced Infrared Difference Spectroscopy in the Investigation of Light Harvesting Complexes. <i>Molecules</i> , 2015, 20, 12229-12249.	3.8	11
29	Organic solventâ€“luteolin interactions studied by FT-Raman, Vis-Raman, UV-Raman spectroscopy and DFT calculations. <i>Journal of Molecular Liquids</i> , 2015, 205, 2-8.	4.9	11
30	Solvent effects on the vibrational spectrum of 3-hydroxyflavone. <i>Journal of Molecular Liquids</i> , 2019, 275, 723-728.	4.9	10
31	Critical assessment of solvent effects on absorption and fluorescence of 3HF in acetonitrile in the QM/PCM framework: A synergic computational and experimental study. <i>Journal of Molecular Structure</i> , 2019, 1182, 283-291.	3.6	10
32	Three Different Tyrosyl Radicals Identified in L-Tyrosine HCl Crystals upon β -Irradiation:â€“Magnetic Characterization and Temporal Evolution. <i>Journal of Physical Chemistry B</i> , 2008, 112, 3812-3820.	2.6	9
33	Assignment of IR bands of isolated and protein-bound Peridinin in its fundamental and triplet state by static FTIR, time-resolved step-scan FTIR and DFT calculations. <i>Journal of Molecular Structure</i> , 2015, 1090, 58-64.	3.6	9
34	Protosalvinia revisited, new evidence for a land plant affinity. <i>Review of Palaeobotany and Palynology</i> , 2016, 227, 52-64.	1.5	9
35	Time-resolved infrared absorption spectroscopy applied to photoinduced reactions: how and why. <i>Photochemical and Photobiological Sciences</i> , 2022, 21, 557-584.	2.9	9
36	Proton and electron transfer in wild-type and mutant reaction centers from <i>Rhodobacter sphaeroides</i> followed by rapid-scan FTIR spectroscopy. <i>Vibrational Spectroscopy</i> , 2008, 48, 126-134.	2.2	7

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37	Structural and dynamic changes of the serum response element and the core domain of serum response factor induced by their association. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 203-208.	2.1	6
38	Laser Raman micro-spectroscopy of Proterozoic and Palaeozoic organic-walled microfossils (acritarchs and prasinophytes) from the Ghadamis Basin, Libya and Volta Basin, Ghana. <i>Spectroscopy</i> , 2010, 24, 207-212.	0.8	5
39	Rapid-scan FTIR difference spectroscopy applied to ubiquinone reduction in photosynthetic reaction centers: Role of redox mediators. <i>Spectroscopy</i> , 2010, 24, 79-87.	0.8	5
40	Kinetic effects in dehydration, rehydration, and isotopic exchange of bacterial photosynthetic reaction centers. <i>Biomedical Spectroscopy and Imaging</i> , 2016, 5, 185-196.	1.2	4
41	Leucine on Silica: A Combined Experimental and Modeling Study of a System Relevant for Origins of Life, and the Role of Water Coadsorption. <i>Langmuir</i> , 2022, 38, 8038-8053.	3.5	4
42	Fluorescent silica MCM-41 nanoparticles based on flavonoids: Direct post-doping encapsulation and spectral characterization. <i>Dyes and Pigments</i> , 2021, 185, 108870.	3.7	3
43	Photobiological systems studied by time-resolved infrared spectroscopy (2015–2018). <i>Photochemistry</i> , 2019, , 159-195.	0.2	3
44	QM/MM dynamics of a Peridinin model in triplet state in three prototypical solvents. <i>Vibrational Spectroscopy</i> , 2016, 87, 182-192.	2.2	2
45	Electron spectroscopies of 3-hydroxyflavone and 7-hydroxyflavone in MCM-41 silica nanoparticles and in acetonitrile solutions. Experimental data and DFT/TD-DFT calculations. <i>Data in Brief</i> , 2021, 34, 106630.	1.0	1