Mariangela Di Donato

List of Publications by Year
in descending order

81	1,991	257450 24	289244 40
papers	citations	h-index	g-index

85	85	85	2167
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Triplet Excited State of BODIPY Accessed by Charge Recombination and Its Application in Tripletâ€“Triplet Annihilation Upconversion. Journal of Physical Chemistry A, 2017, 121, 7550-7564.	2.5	96
2	Shedding Light on the Photoisomerization Pathway of Donorâ€“Acceptor Stenhouse Adducts. Journal of the American Chemical Society, 2017, 139, 15596-15599.	13.7	88
3	A Revisit to the Orthogonal Bodipy Dimers: Experimental Evidence for the Symmetry Breaking Charge Transfer-Induced Intersystem Crossing. Journal of Physical Chemistry C, 2018, 122, 2502-2511.	3.1	79
4	Spinâ€“Orbit Charge Recombination Intersystem Crossing in Phenothiazineâ€“Anthracene Compact Dyads: Effect of Molecular Conformation on Electronic Coupling, Electronic Transitions, and Electron Spin Polarizations of the Triplet States. Journal of Physical Chemistry C, 2018, 122, 27850-27865.	3.1	76
5	Spinâ€“Orbit Chargeâ€Transfer Intersystem Crossing (ISC) in Compact Electron Donorâ€“Acceptor Dyads: ISC Mechanism and Application as Novel and Potent Photodynamic Therapy Reagents. Chemistry - A European Journal, 2020, 26, 1091-1102.	3.3	76
6	Longâ€Lived Chargeâ€Transfer State Induced by Spinâ€Orbit Charge Transfer Intersystem Crossing (SOCTâ€ISC) in a Compact Spiro Electron Donor/Acceptor Dyad. Angewandte Chemie - International Edition, 2020, 59, 11591-11599.	13.8	74
7	Solution and Solid-State Emission Toggling of a Photochromic Hydrazone. Journal of the American Chemical Society, 2018, 140, 12323-12327.	13.7	72
8	Solvent Effects on the Actinic Step of Donorâ€“Acceptor Stenhouse Adduct Photoswitching. Angewandte Chemie - International Edition, 2018, 57, 8063-8068.	13.8	70
9	Taming the Complexity of Donorâ€“Acceptor Stenhouse Adducts: Infrared Motion Pictures of the Complete Switching Pathway. Journal of the American Chemical Society, 2019, 141, 7376-7384.	13.7	66
10	Iminothioindoxyl as a molecular photoswitch with 100â€‰nm band separation in the visible range. Nature Communications, 2019, 10, 2390.	12.8	63
11	Red Thermally Activated Delayed Fluorescence and the Intersystem Crossing Mechanisms in Compact Naphthalimideâ€“Phenothiazine Electron Donor/Acceptor Dyads. Journal of Physical Chemistry C, 2019, 123, 30171-30186.	3.1	63
12	Increasing the anti-Stokes shift in TTA upconversion with photosensitizers showing red-shifted spin-allowed charge transfer absorption but a non-compromised triplet state energy level. Chemical Communications, 2019, 55, 1510-1513.	4.1	60
13	Tailoring Photoisomerization Pathways in Donorâ€“Acceptor Stenhouse Adducts: The Role of the Hydroxy Group. Journal of Physical Chemistry A, 2018, 122, 955-964.	2.5	54
14	Time-resolved methods in biophysics. 5. Femtosecond time-resolved and dispersed infrared spectroscopy on proteins. Photochemical and Photobiological Sciences, 2007, 6, 501.	2.9	52
15	Structure and Dynamics of Low-Density and High-Density Liquid Water at High Pressure. Journal of Physical Chemistry Letters, 2014, 5, 235-240.	4.6	50
16	Proton transfer events in GFP. Physical Chemistry Chemical Physics, 2011, 13, 16295.	2.8	43
17	Cofactors Involved in Light-Driven Charge Separation in Photosystem I Identified by Subpicosecond Infrared Spectroscopy. Biochemistry, 2011, 50, 480-490.	2.5	37
18	Quantum Dynamics of Electron Transfer from Bacteriochlorophyll to Pheophytin in Bacterial Reaction Centers. Journal of Chemical Theory and Computation, 2007, 3, 673-680.	5.3	35

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19	Excitation Energy Transfer in the Photosystem II Core Antenna Complex CP43 Studied by Femtosecond Visible/Visible and Visible/Mid-Infrared Pump Probe Spectroscopy. Journal of Physical Chemistry B, 2007, 111, 7345-7352.	2.6	31
20	Color-Tunable Delayed Fluorescence and Efficient Spinâ€“Orbit Charge Transfer Intersystem Crossing in Compact Carbazole-Anthracene-Bodipy Triads Employing the Sequential Electron Transfer Approach. Journal of Physical Chemistry C, 2020, 124, 5944-5957.	3.1	31
21	Combined Experimental and Theoretical Study of Efficient and Ultrafast Energy Transfer in a Molecular Dyad. Journal of Physical Chemistry C, 2014, 118, 23476-23486.	3.1	29
22	Role of Intramolecular Vibrations in Long-Range Electron Transfer between Pheophytin and Ubiquinone in Bacterial Photosynthetic Reaction Centers. Biophysical Journal, 2005, 89, 830-841.	0.5	28
23	Intersystem crossing via charge recombination in a peryleneâ€“naphthalimide compact electron donor/acceptor dyad. Journal of Materials Chemistry C, 2020, 8, 8305-8319.	5.5	28
24	Efficient Photoinduced Charge Separation in a BODIPYâ€“C₆₀ Dyad. Journal of Physical Chemistry C, 2016, 120, 16526-16536.	3.1	25
25	Mechanism of the Intramolecular Charge Transfer State Formation in all-trans-Î²-Apo-8â€²-carotenal: Influence of Solvent Polarity and Polarizability. Journal of Physical Chemistry B, 2015, 119, 420-432.	2.6	24
26	Primary Charge Separation in the Photosystem II Core from Synechocystis: A Comparison of Femtosecond Visible/Midinfrared Pump-Probe Spectra of Wild-Type and Two P680 Mutants. Biophysical Journal, 2008, 94, 4783-4795.	0.5	23
27	Ultrafast infrared spectroscopy in photosynthesis. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 2-11.	1.0	23
28	Anthryl-Appended Platinum(II) Schiff Base Complexes: Exceptionally Small Stokes Shift, Triplet Excited States Equilibrium, and Application in Tripletâ€“Triplet-Annihilation Upconversion. Inorganic Chemistry, 2020, 59, 14731-14745.	4.0	23
29	Longâ€Lived Chargeâ€Transfer State Induced by Spinâ€Orbit Charge Transfer Intersystem Crossing (SOCTâ€ISC) in a Compact Spiro Electron Donor/Acceptor Dyad. Angewandte Chemie, 2020, 132, 11688-11696.	2.0	22
30	Tuning the Triplet Excited State of Bis(dipyrrin) Zinc(II) Complexes: Symmetry Breaking Charge Transfer Architecture with Exceptionally Long Lived Triplet State for Upconversion. Chemistry - A European Journal, 2020, 26, 14912-14918.	3.3	22
31	Electron transfer rates and Franckâ€“Condon factors: an application to the early electron transfer steps in photosynthetic reaction centers. Theoretical Chemistry Accounts, 2007, 117, 957-967.	1.4	21
32	Solvent Effects on the Actinic Step of Donorâ€“Acceptor Stenhouse Adduct Photoswitching. Angewandte Chemie, 2018, 130, 8195-8200.	2.0	21
33	Phenylimino Indolinone: A Greenâ€Lightâ€Responsive Tâ€Type Photoswitch Exhibiting Negative Photochromism. Angewandte Chemie - International Edition, 2021, 60, 25290-25295.	13.8	21
34	Electron Transfer between Quinones in Photosynthetic Reaction Centers. Journal of Physical Chemistry B, 2004, 108, 3068-3077.	2.6	20
35	Valence Tautomerism in Coâ€“Dioxolene Complexes: Static and Time-Resolved Infrared Spectroscopy Study. Journal of Physical Chemistry B, 2013, 117, 15492-15502.	2.6	20
36	Torsion-Induced Nonradiative Relaxation of the Singlet Excited State of meso-Thienyl Bodipy and Charge Separation, Charge Recombination-Induced Intersystem Crossing in Its Compact Electron Donor/Acceptor Dyads. Journal of Physical Chemistry B, 2021, 125, 4779-4793.	2.6	19

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37	A Femtosecond Visible/Visible and Visible/Mid-Infrared Transient Absorption Study of the Light Harvesting Complex II. Biophysical Journal, 2009, 97, 3215-3223.	0.5	18
38	Combination of Transient 2D-IR Experiments and Ab Initio Computations Sheds Light on the Formation of the Charge-Transfer State in Photoexcited Carbonyl Carotenoids. Journal of Physical Chemistry B, 2014, 118, 9613-9630.	2.6	17
39	Benzo[1,2-d:4,5-dâ€²]bisthiazole fluorophores for luminescent solar concentrators: synthesis, optical properties and effect of the polymer matrix on the device performances. Dyes and Pigments, 2021, 188, 109207.	3.7	17
40	A highly efficient heptamethine cyanine antenna for photosynthetic Reaction Center: From chemical design to ultrafast energy transfer investigation of the hybrid system. Biochimica Et Biophysica Acta - Bioenergetics, 2019, 1860, 350-359.	1.0	17
41	An alternative way of thinking about electron transfer in proteins: Proton assisted electron transfer between the primary and the secondary quinones in photosynthetic reaction centers. Journal of Chemical Physics, 2000, 113, 3212-3218.	3.0	16
42	Femtosecond transient infrared and stimulated Raman spectroscopy shed light on the relaxation mechanisms of photo-excited peridinin. Journal of Chemical Physics, 2015, 142, 212409.	3.0	16
43	Luminescent solar concentrators with outstanding optical properties by employment of Dâ€“Aâ€“D quinoxaline fluorophores. Journal of Materials Chemistry C, 2021, 9, 15608-15621.	5.5	16
44	Dynamics of the time-resolved stimulated Raman scattering spectrum in presence of transient vibronic inversion of population on the example of optically excited trans-Î²-apo-8â€²-carotenal. Journal of Chemical Physics, 2014, 140, 204312.	3.0	15
45	Nearâ€IRâ€Absorbing BODIPYâ€5,10â€Dihydrophenazine Compact Electron Donor/Acceptor Dyads and Triads: Spinâ€Orbit Charge Transfer Intersystem Crossing and Chargeâ€Transfer State. ChemPhotoChem, 2020, 4, 487-501.	3.0	14
46	Intersystem Crossing in Naphthalenediimideâ€“Oxoverdazyl Dyads: Synthesis and Study of the Photophysical Properties. Chemistry - A European Journal, 2019, 25, 15615-15627.	3.3	13
47	Addressing Chargeâ€Transfer and Locallyâ€Excited States in a Twisted Biphenyl Pushâ€Pull Chromophore. ChemPhysChem, 2019, 20, 2860-2873.	2.1	13
48	Tailoring the optical and dynamic properties of iminothioindoxyl photoswitches through acidochromism. Chemical Science, 2021, 12, 4588-4598.	7.4	13
49	Ultrafast resonance energy transfer in the umbelliferoneâ€“alizarin bichromophore. Physical Chemistry Chemical Physics, 2014, 16, 10059-10074.	2.8	12
50	Bodipy-squaraine triads: Preparation and study of the intramolecular energy transfer, charge separation and intersystem crossing. Dyes and Pigments, 2017, 147, 560-572.	3.7	12
51	Red Lightâ€Emitting Thermallyâ€Activated Delayed Fluorescence of Naphthalimideâ€Phenoxazine Electron Donorâ€Acceptor Dyad: Timeâ€Resolved Optical and Magnetic Spectroscopic Studies. Chemistry - A European Journal, 2022, 28, .	3.3	12
52	Photoinduced excitation and charge transfer processes of organic dyes with siloxane anchoring groups: a combined spectroscopic and computational study. Physical Chemistry Chemical Physics, 2017, 19, 15310-15323.	2.8	11
53	Balancing fluorescence and singlet oxygen formation in pushâ€“pull type near-infrared BODIPY photosensitizers. Journal of Materials Chemistry C, 2022, 10, 9344-9355.	5.5	11
54	Proton Assisted Electron Transfer. Advances in Quantum Chemistry, 2000, 36, 301-322.	0.8	10

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55	Carbon Monoxide Recombination Dynamics in Truncated Hemoglobins Studied with Visible-Pump MidIR-Probe Spectroscopy. Journal of Physical Chemistry B, 2012, 116, 8753-8761.	2.6	10
56	Monitoring the intramolecular charge transfer process in the Z907 solar cell sensitizer: a transient Vis and IR spectroscopy and ab initio investigation. Physical Chemistry Chemical Physics, 2015, 17, 21594-21604.	2.8	10
57	Excitation Dynamics in Heteroâ€bichromophoric Calixarene Systems. ChemPhysChem, 2016, 17, 1686-1706.	2.1	10
58	Understanding the influence of disorder on the exciton dynamics and energy transfer in Zn-phthalocyanine H-aggregates. Physical Chemistry Chemical Physics, 2018, 20, 22331-22341.	2.8	9
59	Investigation of electronic energy transfer in a BODIPY-decorated calix[4]arene. Dyes and Pigments, 2019, 171, 107652.	3.7	9
60	Time-resolved infrared absorption spectroscopy applied to photoinduced reactions: how and why. Photochemical and Photobiological Sciences, 2022, 21, 557-584.	2.9	9
61	The role of the ironâ€“histidine bridge in the early steps of photosynthesis. Chemical Physics Letters, 2003, 369, 549-555.	2.6	8
62	Coacervation of Î±-elastin studied by ultrafast nonlinear infrared spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 27981-27990.	2.8	8
63	Dihydroazuleneâ€Azobenzeneâ€Dihydroazulene Triad Photoswitches. Chemistry - A European Journal, 2021, 27, 12437-12446.	3.3	8
64	Vibronic coherences in light harvesting nanotubes: unravelling the role of dark states. Journal of Materials Chemistry C, 2022, 10, 7216-7226.	5.5	8
65	Identification of the Excited-State Câ•C and Câ•O Modes of trans-Î²-Apo-8â€²-carotenal with Transient 2D-IR-EXSY and Femtosecond Stimulated Raman Spectroscopy. Journal of Physical Chemistry Letters, 2015, 6, 1592-1598.	4.6	7
66	Charge Separation and Intersystem Crossing in Homo- and Hetero-Compact Naphthalimide Dimers. Journal of Physical Chemistry B, 2022, 126, 4364-4378.	2.6	7
67	Role of Local Structure and Dynamics of Small Ligand Migration in Proteins: A Study of a Mutated Truncated Hemoprotein from Thermobifida fusca by Time Resolved MIR Spectroscopy. Journal of Physical Chemistry B, 2014, 118, 9209-9217.	2.6	6
68	Cold-Adaptation Signatures in the Ligand Rebinding Kinetics to the Truncated Hemoglobin of the Antarctic Bacterium Pseudoalteromonas haloplanktis TAC125. Journal of Physical Chemistry B, 2018, 122, 11649-11661.	2.6	6
69	Ultrafast processes triggered by one- and two-photon excitation of a photochromic and luminescent hydrazone. Beilstein Journal of Organic Chemistry, 2019, 15, 2438-2446.	2.2	6
70	A Plausible Mechanism of Electron Transfer between Quinones in Photosynthetic Reaction Centers. Journal of Theoretical Biology, 2000, 207, 101-105.	1.7	5
71	Intramolecular reorganization energies and Franckâ€“Condon integrals for ET from pheophytin to quinone in bacterial photosynthetic reaction centers. Chemical Physics Letters, 2005, 413, 210-215.	2.6	5
72	Phototautomerism of triazolo-triazole scaffold. Journal of Molecular Structure, 2020, 1203, 127368.	3.6	4

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73	A possible role of histidine residues in long-range electron transfer in proteins. Theoretical Chemistry Accounts, 2004, 111, 303-310.	1.4	3
74	Tailoring the Optical Properties of Organic D-Ï€-A Photosensitizers: Effect of Sulfur Introduction in the Acceptor Group. European Journal of Organic Chemistry, 2019, 2019, 812-825.	2.4	3
75	Radicalâ€Enhanced Intersystem Crossing in Peryleneâ€Oxoverdazyl Radical Dyads. ChemPhysChem, 2022, 23, .	2.1	3
76	Synthesis of Silatrane-Containing Organic Sensitizers as Precursors for the Silyloxyl Anchoring Group in Dye-Sensitized Solar Cells. Synthesis, 2017, 49, 3975-3984.	2.3	2
77	Phenylimino Indolinone: A Greenâ€Lightâ€Responsive Tâ€Type Photoswitch Exhibiting Negative Photochromism. Angewandte Chemie, 2021, 133, 25494.	2.0	2
78	Unravelling the ultrafast dynamics of a N-BODIPY compound. Dyes and Pigments, 2022, 200, 110181.	3.7	2
79	Steric hindrances and spectral distributions affecting energy transfer rate: A comparative study on specifically designed donor-acceptor pairs. Dyes and Pigments, 2020, 174, 108010.	3.7	1
80	Extremely fast triplet formation by charge recombination in a Nile Red/fullerene flexible dyad. Journal of Materials Chemistry C, 2021, 9, 10899-10911.	5.5	1
81	Closed Reaction Centers of PS1 Still Can Perform the First Steps of Charge Separation. A Mid IR Pump Probe Study with fs Resolution. Advanced Topics in Science and Technology in China, 2013, , 127-130.	0.1	0