

Luis M Campos

List of Publications by Year in descending order

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113
papers

8,274
citations

50276

46
h-index

46799

89
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118
all docs

118
docs citations

118
times ranked

9151
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust, Efficient, and Orthogonal Synthesis of Dendrimers via Thiol-ene "Click" Chemistry. <i>Journal of the American Chemical Society</i> , 2008, 130, 5062-5064.	13.7	738
2	Photoredox catalysis using infrared light via triplet fusion upconversion. <i>Nature</i> , 2019, 565, 343-346.	27.8	447
3	Development of Thermal and Photochemical Strategies for Thiol~Ene Click Polymer Functionalization. <i>Macromolecules</i> , 2008, 41, 7063-7070.	4.8	430
4	Single-molecule diodes with high rectification ratios through environmental control. <i>Nature Nanotechnology</i> , 2015, 10, 522-527.	31.5	360
5	Quantitative Intramolecular Singlet Fission in Bipentacenes. <i>Journal of the American Chemical Society</i> , 2015, 137, 8965-8972.	13.7	324
6	Tunable, High Modulus Hydrogels Driven by Ionic Coacervation. <i>Advanced Materials</i> , 2011, 23, 2327-2331.	21.0	315
7	A design strategy for intramolecular singlet fission mediated by charge-transfer states in "donor" acceptor organic materials. <i>Nature Materials</i> , 2015, 14, 426-433.	27.5	298
8	Quintet multiexciton dynamics in singlet fission. <i>Nature Physics</i> , 2017, 13, 182-188.	16.7	220
9	A versatile approach to high-throughput microarrays using thiol-ene chemistry. <i>Nature Chemistry</i> , 2010, 2, 138-145.	13.6	206
10	Non-chemisorbed gold-sulfur binding prevails in self-assembled monolayers. <i>Nature Chemistry</i> , 2019, 11, 351-358.	13.6	202
11	Extended Photocurrent Spectrum of a Low Band Gap Polymer in a Bulk Heterojunction Solar Cell. <i>Chemistry of Materials</i> , 2005, 17, 4031-4033.	6.7	193
12	Highly Versatile and Robust Materials for Soft Imprint Lithography Based on Thiol~ene Click Chemistry. <i>Advanced Materials</i> , 2008, 20, 3728-3733.	21.0	193
13	A Direct Mechanism of Ultrafast Intramolecular Singlet Fission in Pentacene Dimers. <i>ACS Central Science</i> , 2016, 2, 316-324.	11.3	176
14	Stimuli-Responsive Azulene-Based Conjugated Oligomers with Polyaniline-like Properties. <i>Journal of the American Chemical Society</i> , 2011, 133, 10046-10049.	13.7	161
15	Singlet Fission: Progress and Prospects in Solar Cells. <i>Advanced Materials</i> , 2017, 29, 1601652.	21.0	158
16	Molecular length dictates the nature of charge carriers in single-molecule junctions of oxidized oligothiophenes. <i>Nature Chemistry</i> , 2015, 7, 209-214.	13.6	147
17	Tuning Singlet Fission in "Bridge" Chromophores. <i>Journal of the American Chemical Society</i> , 2017, 139, 12488-12494.	13.7	147
18	Length-Dependent Conductance of Oligothiophenes. <i>Journal of the American Chemical Society</i> , 2014, 136, 10486-10492.	13.7	127

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19	Exciton Correlations in Intramolecular Singlet Fission. <i>Journal of the American Chemical Society</i> , 2016, 138, 7289-7297.	13.7	117
20	Breakdown of Interference Rules in Azulene, a Nonalternant Hydrocarbon. <i>Nano Letters</i> , 2014, 14, 2941-2945.	9.1	113
21	A facile route to ketene-functionalized polymers for general materials applications. <i>Nature Chemistry</i> , 2010, 2, 207-212.	13.6	109
22	Intramolecular Singlet Fission in Oligoacene Heterodimers. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3373-3377.	13.8	109
23	A General Approach to Controlling the Surface Composition of Poly(ethylene oxide)-Based Block Copolymers for Antifouling Coatings. <i>Langmuir</i> , 2011, 27, 13762-13772.	3.5	106
24	Poly(allyl glycidyl ether) – A versatile and functional polyether platform. <i>Journal of Polymer Science Part A</i> , 2011, 49, 4498-4504.	2.3	104
25	Distinct properties of the triplet pair state from singlet fission. <i>Science Advances</i> , 2017, 3, e1700241.	10.3	102
26	A reversible single-molecule switch based on activated antiaromaticity. <i>Science Advances</i> , 2017, 3, eaa02615.	10.3	94
27	Accelerated Growth of Dendrimers via Thiol-ene and Esterification Reactions. <i>Macromolecules</i> , 2010, 43, 6004-6013.	4.8	90
28	Ultra-fast intramolecular singlet fission to persistent multiexcitons by molecular design. <i>Nature Chemistry</i> , 2019, 11, 821-828.	13.6	85
29	A facile synthesis of clickable and acid-cleavable PEO for acid-degradable block copolymers. <i>Polymer Chemistry</i> , 2012, 3, 1890-1898.	3.9	83
30	Control of Single-Molecule Junction Conductance of Porphyrins via a Transition-Metal Center. <i>Nano Letters</i> , 2014, 14, 5365-5370.	9.1	83
31	Applications of Photocurable PMMS Thiol-ene Stamps in Soft Lithography. <i>Chemistry of Materials</i> , 2009, 21, 5319-5326.	6.7	77
32	Triplet Harvesting from Intramolecular Singlet Fission in Polytetracene. <i>Advanced Materials</i> , 2017, 29, 1701416.	21.0	70
33	Tunable Emission from Triplet Fusion Upconversion in Diketopyrrolopyrroles. <i>Journal of the American Chemical Society</i> , 2019, 141, 3777-3781.	13.7	66
34	Engineering Topochemical Polymerizations Using Block Copolymer Templates. <i>Journal of the American Chemical Society</i> , 2014, 136, 13381-13387.	13.7	65
35	Understanding the Bound Triplet-Pair State in Singlet Fission. <i>CheM</i> , 2019, 5, 1988-2005.	11.7	63
36	Polymeric supramolecular assemblies based on multivalent ionic interactions for biomedical applications. <i>Polymer</i> , 2014, 55, 453-464.	3.8	59

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37	Mapping the Transmission Functions of Single-Molecule Junctions. <i>Nano Letters</i> , 2016, 16, 3949-3954.	9.1	58
38	Impact of Molecular Symmetry on Single-Molecule Conductance. <i>Journal of the American Chemical Society</i> , 2013, 135, 11724-11727.	13.7	57
39	Monoliths of Semiconducting Block Copolymers by Magnetic Alignment. <i>ACS Nano</i> , 2013, 7, 5514-5521.	14.6	56
40	The evolution of cyclopropenium ions into functional polyelectrolytes. <i>Nature Communications</i> , 2015, 6, 5950.	12.8	54
41	The Environment-Dependent Behavior of the Blatter Radical at the Metal-Molecule Interface. <i>Nano Letters</i> , 2019, 19, 2543-2548.	9.1	54
42	The preparation of thiophene-S,S-dioxides and their role in organic electronics. <i>Journal of Materials Chemistry</i> , 2012, 22, 12945.	6.7	52
43	Annihilator dimers enhance triplet fusion upconversion. <i>Chemical Science</i> , 2019, 10, 3969-3975.	7.4	51
44	Correlating Structure and Function in Organic Electronics: From Single Molecule Transport to Singlet Fission. <i>Chemistry of Materials</i> , 2015, 27, 5453-5463.	6.7	50
45	De Novo Design of Bioactive Protein-Resembling Nanospheres via Dendrimer-Templated Peptide Amphiphile Assembly. <i>Nano Letters</i> , 2011, 11, 3946-3950.	9.1	49
46	Engineering Reactions in Crystalline Solids: Predicting Photochemical Decarbonylation from Calculated Thermochemical Parameters. <i>Journal of Organic Chemistry</i> , 2002, 67, 3749-3754.	3.2	47
47	Clickable Poly(ionic liquids): A Materials Platform for Transfection. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12382-12386.	13.8	47
48	Ion Transport in Cyclopropenium-Based Polymerized Ionic Liquids. <i>Macromolecules</i> , 2018, 51, 1681-1687.	4.8	45
49	The butterfly effect in bisfluorenylidene-based dihydroacenes: aggregation induced emission and spin switching. <i>Chemical Science</i> , 2019, 10, 10733-10739.	7.4	42
50	Molecular Engineering of Chromophores to Enable Triplet-Triplet Annihilation Upconversion. <i>Journal of the American Chemical Society</i> , 2020, 142, 19917-19925.	13.7	42
51	Advancements and challenges of patterning biomolecules with sub-50 nm features. <i>Soft Matter</i> , 2013, 9, 6578.	2.7	41
52	Intramolecular Singlet Fission in Oligoacene Heterodimers. <i>Angewandte Chemie</i> , 2016, 128, 3434-3438.	2.0	38
53	Highly conducting single-molecule topological insulators based on mono- and di-radical cations. <i>Nature Chemistry</i> , 2022, 14, 1061-1067.	13.6	38
54	Singlet fission in a hexacene dimer: energetics dictate dynamics. <i>Chemical Science</i> , 2020, 11, 1079-1084.	7.4	35

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55	Fast Singlet Exciton Decay in Push-Pull Molecules Containing Oxidized Thiophenes. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7644-7650.	2.6	34
56	Properties of Poly- and Oligopentacenes Synthesized from Modular Building Blocks. <i>Macromolecules</i> , 2016, 49, 1279-1285.	4.8	34
57	Nanopatterning Biomolecules by Block Copolymer Self-Assembly. <i>ACS Macro Letters</i> , 2012, 1, 758-763.	4.8	33
58	Low-temperature ketene formation in materials chemistry through molecular engineering. <i>Chemical Science</i> , 2012, 3, 766-771.	7.4	33
59	Breaking Down Resonance: Nonlinear Transport and the Breakdown of Coherent Tunneling Models in Single Molecule Junctions. <i>Nano Letters</i> , 2019, 19, 2555-2561.	9.1	32
60	Photophysical characterization and time-resolved spectroscopy of an anthradithiophene dimer: exploring the role of conformation in singlet fission. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 23162-23175.	2.8	31
61	Persistent Multiexcitons from Polymers with Pendent Pentacenes. <i>Journal of the American Chemical Society</i> , 2019, 141, 9564-9569.	13.7	31
62	Enthalpy of fusion of poly(3-hexylthiophene) by differential scanning calorimetry. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2014, 52, 1469-1475.	2.1	28
63	Three-Phase Morphology of Semicrystalline Polymer Semiconductors: A Quantitative Analysis. <i>ACS Macro Letters</i> , 2015, 4, 1051-1055.	4.8	28
64	Resolving the Unpaired Electron Orbital Distribution in a Stable Organic Radical by Kondo Resonance Mapping. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11063-11067.	13.8	27
65	Radical Reactions with Double Memory of Chirality (2MOC) for the Enantiospecific Synthesis of Adjacent Stereogenic Quaternary Centers in Solution: Cleavage and Bonding Faster than Radical Rotation. <i>Journal of the American Chemical Society</i> , 2009, 131, 8425-8433.	13.7	25
66	Strongly Phase-Segregating Block Copolymers with Sub-20 nm Features. <i>ACS Macro Letters</i> , 2013, 2, 677-682.	4.8	25
67	Materials for the preparation of polymer pen lithography tip arrays and a comparison of their printing properties. <i>Journal of Polymer Science Part A</i> , 2013, 51, 1533-1539.	2.3	24
68	Hierarchically Ordered Nanopatterns for Spatial Control of Biomolecules. <i>ACS Nano</i> , 2014, 8, 11846-11853.	14.6	23
69	Tuning the polarity of charge carriers using electron deficient thiophenes. <i>Chemical Science</i> , 2017, 8, 3254-3259.	7.4	23
70	Multifunctional Vesicles from a Self-assembled Cluster-Containing Diblock Copolymer. <i>Journal of the American Chemical Society</i> , 2018, 140, 5607-5611.	13.7	23
71	Synthesis, properties, and LED performance of highly luminescent metal complexes containing indolizino[3,4,5-ab]isoindoles. <i>Journal of Materials Chemistry</i> , 2009, 19, 5826.	6.7	21
72	Nanostructured Hybrid Solar Cells: Dependence of the Open Circuit Voltage on the Interfacial Composition. <i>Advanced Materials</i> , 2010, 22, 4982-4986.	21.0	21

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73	Preparation of non-spherical particles from amphiphilic block copolymers. <i>Journal of Polymer Science Part A</i> , 2016, 54, 750-757.	2.3	21
74	Anticipating Acene-Based Chromophore Spectra with Molecular Orbital Arguments. <i>Journal of Physical Chemistry A</i> , 2019, 123, 2527-2536.	2.5	21
75	Photolysis of Heptanal. <i>Journal of Organic Chemistry</i> , 2006, 71, 6403-6408.	3.2	20
76	A facile route to patterned epitaxial ZnO nanostructures by soft lithography. <i>Journal of Materials Chemistry</i> , 2011, 21, 14417.	6.7	19
77	Photon Upconversion Hydrogels for 3D Optogenetics. <i>Advanced Functional Materials</i> , 2021, 31, 2010907.	14.9	19
78	Secondary Alpha Isotope Effects on Deuterium Tunneling in Triplet-Methylnantrones: An Extraordinary Sensitivity to Barrier Width. <i>Journal of the American Chemical Society</i> , 2005, 127, 10178-10179.	13.7	17
79	Cyclopropenium Nanoparticles and Gene Transfection in Cells. <i>Pharmaceutics</i> , 2020, 12, 768.	4.5	17
80	Destructive quantum interference in heterocyclic alkanes: the search for ultra-short molecular insulators. <i>Chemical Science</i> , 2021, 12, 10299-10305.	7.4	17
81	Quantifying Exciton Transport in Singlet Fission Diblock Copolymers. <i>Journal of the American Chemical Society</i> , 2022, 144, 3269-3278.	13.7	17
82	Synthesis of Robust Surface-Charged Nanoparticles Based on Cyclopropenium Ions. <i>Macromolecules</i> , 2015, 48, 2519-2525.	4.8	16
83	Fully charged: Maximizing the potential of cationic polyelectrolytes in applications ranging from membranes to gene delivery through rational design. <i>Journal of Polymer Science Part A</i> , 2017, 55, 3167-3174.	2.3	16
84	Bridge Resonance Effects in Singlet Fission. <i>Journal of Physical Chemistry A</i> , 2020, 124, 9392-9399.	2.5	16
85	Crystal Phases and Phase Transitions in a Highly Polymorphogenic Solid-State Molecular Gyroscope with meta-Methoxytrityl Frames. <i>Crystal Growth and Design</i> , 2006, 6, 866-873.	3.0	15
86	Photophysical properties of non-homoconjugated 1,2-dihydro, 1,2,3,4-tetrahydro and 1,2,3,4,5,6-hexahydro-C ₆₀ derivatives. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 49-55.	2.9	15
87	Influence of Nanostructure on the Exciton Dynamics of Multichromophore Donor-Acceptor Block Copolymers. <i>ACS Nano</i> , 2017, 11, 4593-4598.	14.6	15
88	Molecular conductance versus inductive effects of axial ligands on the electrocatalytic activity of self-assembled iron phthalocyanines: The oxygen reduction reaction. <i>Electrochimica Acta</i> , 2019, 327, 134996.	5.2	14
89	Impact of Electrostatic Interactions on the Self-Assembly of Charge-Neutral Block Copolyelectrolytes. <i>Macromolecules</i> , 2020, 53, 548-557.	4.8	14
90	Singlet fission and triplet pair recombination in bipentacenes with a twist. <i>Materials Horizons</i> , 2022, 9, 462-470.	12.2	14

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91	Highly ordered nanoporous thin films by blending of PSt- <i>b</i> -PMMA block copolymers and PEO additives as structure directing agents. <i>Journal of Polymer Science Part A</i> , 2008, 46, 8041-8048.	2.3	13
92	Dimerization of Endohedral Fullerene in a Superatomic Crystal. <i>Chemistry - A European Journal</i> , 2017, 23, 13305-13308.	3.3	13
93	Influence of Substituent Chain Branching on the Transfection Efficacy of Cyclopropenium-Based Polymers. <i>Polymers</i> , 2017, 9, 79.	4.5	13
94	Charge transfer states impact the triplet pair dynamics of singlet fission polymers. <i>Journal of Chemical Physics</i> , 2020, 153, 244902.	3.0	13
95	H-abstraction prevails over $\hat{I}\pm$ -cleavage in the solution and solid state photochemistry of cis-2,6-di(1-cyclohexenyl)cyclohexanone. <i>Tetrahedron Letters</i> , 2003, 44, 6133-6136.	1.4	12
96	Impact of building block structure on ion transport in cyclopropenium-based polymerized ionic liquids. <i>Polymer Chemistry</i> , 2019, 10, 2832-2839.	3.9	11
97	Interplay between Magnetoresistance and Kondo Resonance in Radical Single-Molecule Junctions. <i>Nano Letters</i> , 2022, 22, 5773-5779.	9.1	10
98	Cyclopropenium-Based Biodegradable Polymers. <i>Macromolecules</i> , 2019, 52, 3543-3550.	4.8	7
99	In silico prediction of annihilators for triplet-triplet annihilation upconversion via auxiliary-field quantum Monte Carlo. <i>Chemical Science</i> , 2021, 12, 1068-1079.	7.4	7
100	Pentacene- π - π -Bridge Interactions in an Axially Chiral Binaphthyl Pentacene Dimer. <i>Journal of Physical Chemistry A</i> , 2021, 125, 7226-7234.	2.5	7
101	Reactive Intermediates in Crystals: Form and Function. , 0, , 271-331.		6
102	Holographic Recording in Cross-Linked Polymeric Matrices through Photoacid Generation. <i>Chemistry of Materials</i> , 2008, 20, 3669-3674.	6.7	6
103	Crosslinked colloids with cyclopropenium cations. <i>Journal of Polymer Science Part A</i> , 2018, 56, 2641-2645.	2.3	6
104	Norrish Type I vs. Norrish-Yang Type II in the Solid State Photochemistry of CIS-2,6-DI(1-Cyclohexenyl)-Cyclohexanone: A Computational Study. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 456, 15-24.	0.9	5
105	Reversible on-surface wiring of resistive circuits. <i>Chemical Science</i> , 2017, 8, 4340-4346.	7.4	5
106	Microphase segregation and selective chain scission of poly(2-methyl-2-oxazoline)- <i>b</i> -polystyrene. <i>Journal of Polymer Science Part A</i> , 2019, 57, 1349-1357.	2.3	5
107	Clickable Poly(ionic liquids): A Materials Platform for Transfection. <i>Angewandte Chemie</i> , 2016, 128, 12570-12574.	2.0	4
108	A Birds-Eye View of the Uphill Landscape in Endothermic Singlet Fission. <i>CheM</i> , 2017, 3, 536-538.	11.7	4

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109	Hierarchical patterns with sub-20 nm pattern fidelity <i>via</i> block copolymer self-assembly and soft nanotransfer printing. <i>Polymer Chemistry</i> , 2019, 10, 3194-3200.	3.9	3
110	Modular Hydrogels: Tunable, High Modulus Hydrogels Driven by Ionic Coacervation (<i>Adv. Mater.</i>)	21.0	1
111	Abbildung des Orbitals des ungepaarten Elektrons in einem stabilen, organischen Radikal anhand seiner Kondo-Resonanz. <i>Angewandte Chemie</i> , 2019, 131, 11179-11183.	2.0	1
112	Asymmetric trisalkylamine cyclopropenium derivatives with antimicrobial activity. <i>Bioorganic Chemistry</i> , 2020, 102, 104069.	4.1	1
113	PROFILE: Early Excellence in <i>Physical Organic Chemistry</i> . <i>Journal of Physical Organic Chemistry</i> , 2015, 28, 575-576.	1.9	0