

Chad Risiko

List of Publications by Year in descending order

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36087

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88
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202
all docs

202
docs citations

202
times ranked

11948
citing authors

#	ARTICLE	IF	CITATIONS
1	ExpFlow: a graphical user interface for automated reproducible electrochemistry. <i>Digital Discovery</i> , 2024, 3, 163-172.	5.7	2
2	Chalcocarbogels as High-Capacity and Cycle-Stable Electrode Materials for Lithium and Sodium Ion Batteries. <i>ACS Energy Letters</i> , 2024, 9, 1-9.	18.4	8
3	Colloidal Stability and Solubility of Metal-Organic Framework Particles. <i>Chemistry of Materials</i> , 2024, 36, 3673-3682.	7.1	3
4	Promises and Perils of Big Data: Philosophical Constraints on Chemical Ontologies. <i>Journal of the American Chemical Society</i> , 2024, 146, 11579-11591.	14.6	0
5	A 3D Printed Pumpless Nonaqueous Organic Redox Flow Cell. <i>ECS Meeting Abstracts</i> , 2024, MA2024-01, 768-768.	0.0	0
6	Relating reorganization energies, exciton diffusion length and non-radiative recombination to the room temperature UV-vis absorption spectra of NF-SMA. <i>Materials Horizons</i> , 2023, 10, 443-453.	12.8	5
7	Probing Redox Properties of Extreme Concentrations Relevant for Nonaqueous Redox-Flow Batteries. <i>ACS Applied Energy Materials</i> , 2023, 6, 2819-2831.	5.3	3
8	Twisted Crystalline Organic Semiconductor Photodetectors. <i>Advanced Functional Materials</i> , 2023, 33, .	16.5	10
9	Computational Approaches for Organic Semiconductors: From Chemical and Physical Understanding to Predicting New Materials. <i>Chemical Reviews</i> , 2023, 123, 7498-7547.	51.4	24
10	Shear-aligned large-area organic semiconductor crystals through extended π - π interaction. <i>Journal of Materials Chemistry C</i> , 2023, 11, 8992-9001.	5.6	1
11	Resonant X-ray Diffraction Reveals the Location of Counterions in Doped Organic Mixed Ionic Conductors. <i>Chemistry of Materials</i> , 2023, 35, 3960-3967.	7.1	5
12	Carboxylic Acid Decarbonylation on Nickel: The Critical Role of the Acid Binding Geometry. <i>ACS Catalysis</i> , 2023, 13, 9102-9112.	11.7	2
13	Hydrogen-Bonding Trends in a Bithiophene with 3- and/or 4-Pyridyl Substituents. <i>ACS Omega</i> , 2023, 8, 24485-24494.	3.6	0
14	Factors Impacting Dihedral Angle Rotation and Classification in π -Conjugated Systems. <i>Macromolecules</i> , 2023, 56, 5259-5267.	5.1	1
15	Towards a comprehensive data infrastructure for redox-active organic molecules targeting non-aqueous redox flow batteries. <i>Digital Discovery</i> , 2023, 2, 1152-1162.	5.7	5
16	Impact of Molecular Geometry and Functionalization on Solution Complexation of Coronene-Based Buckybowls and Fullerenes. <i>Chemistry of Materials</i> , 2023, 35, 5524-5531.	7.1	3
17	Engineering ligand reactivity enables high-temperature operation of stable perovskite solar cells. <i>Science</i> , 2023, 381, 209-215.	20.9	121
18	Multiexciton quintet state populations in a rigid pyrene-bridged parallel tetracene dimer. <i>Chemical Science</i> , 2023, 14, 11554-11565.	7.8	2

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19	Chain Conformation and Exciton Delocalization in a Push-Pull Conjugated Polymer. Chemistry of Materials, 2023, 35, 10258-10267.	7.1	2
20	Thank You, Elsa! A Virtual Special Issue in Honor of Professor Elsa Reichmanis. Chemistry of Materials, 2023, 35, 9819-9820.	7.1	1
21	Thermomechanical enhancement of $\langle \text{DPP} \rangle$ through purposeful $\langle \text{conjugation} \rangle$ disruption. Journal of Polymer Science, 2022, 60, 559-568.	4.2	5
22	Following the crystal growth of anthradithiophenes through atomistic molecular dynamics simulations and graph characterization. Molecular Systems Design and Engineering, 2022, 7, 112-122.	3.3	1
23	The Solution is the Solution: Data-Driven Elucidation of Solution-to-Device Feature Transfer for $\langle \text{Conjugated Polymer Semiconductors} \rangle$. ACS Applied Materials & Interfaces, 2022, 14, 3613-3620.	8.3	18
24	Unveiling the structural, electronic, and optical effects of carbon-doping on multi-layer anatase TiO ₂ (1 0 1) and the impact on photocatalysis. Applied Surface Science, 2022, 586, 152641.	6.3	14
25	Computational characterization of charge transport resiliency in molecular solids. Molecular Systems Design and Engineering, 2022, 7, 651-660.	3.3	1
26	Challenges in Information-Mining the Materials Literature: A Case Study and Perspective. Chemistry of Materials, 2022, 34, 4821-4827.	7.1	5
27	The role of crystal packing on the optical response of trialkyltetraethynyl acenes. Journal of Chemical Physics, 2022, 157, .	3.1	3
28	Algorithm 1025: PARYOpt: A Software for $\langle \text{Parallel} \rangle$ synchronous $\langle \text{Remote} \rangle$ $\langle \text{Batch} \rangle$ $\langle \text{Optimization} \rangle$. ACM Transactions on Mathematical Software, 2022, 48, 1-15.	3.1	2
29	Large variability and complexity of isothermal solubility for a series of redox-active phenothiazines. Materials Advances, 2022, 3, 8705-8715.	5.2	4
30	Data storage architectures to accelerate chemical discovery: data accessibility for individual laboratories and the community. Chemical Science, 2022, 13, 13646-13656.	7.8	9
31	Electronic, redox, and optical property prediction of organic $\langle \text{conjugated} \rangle$ molecules through a hierarchy of machine learning approaches. Chemical Science, 2022, 14, 203-213.	7.8	11
32	Steric Manipulation as a Mechanism for Tuning the Reduction and Oxidation Potentials of Phenothiazines. Journal of Physical Chemistry A, 2021, 125, 272-278.	2.6	11
33	Synthesis, structures, and reactivity of isomers of $[\text{RuCp}^*(1,4\text{-}(\text{Me})_2\text{N})_2\text{C}_6\text{H}_4]_2$. Dalton Transactions, 2021, 50, 13020-13030.	3.4	4
34	n-type charge transport in heavily p-doped polymers. Nature Materials, 2021, 20, 518-524.	26.6	79
35	A molecular interaction-diffusion framework for predicting organic solar cell stability. Nature Materials, 2021, 20, 525-532.	26.6	251
36	Reactivity of an air-stable dihydrobenzimidazole n-dopant with organic semiconductor molecules. Chem, 2021, 7, 1050-1065.	12.2	48

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37	Suppressing bias stress degradation in high performance solution processed organic transistors operating in air. <i>Nature Communications</i> , 2021, 12, 2352.	13.2	57
38	OCELOT: An infrastructure for data-driven research to discover and design crystalline organic semiconductors. <i>Journal of Chemical Physics</i> , 2021, 154, 174705.	3.1	28
39	Modification of the LiFePO ₄ (010) Surface Due to Exposure to Atmospheric Gases. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29034-29040.	8.3	11
40	Evolution of Chain Dynamics and Oxidation States with Increasing Chain Length for a Donor-Acceptor-Conjugated Oligomer Series. <i>Macromolecules</i> , 2021, 54, 8207-8219.	5.1	13
41	Genetic Algorithms and Machine Learning for Predicting Surface Composition, Structure, and Chemistry: A Historical Perspective and Assessment. <i>Chemistry of Materials</i> , 2021, 33, 6589-6615.	7.1	12
42	Lowering Electrocatalytic CO ₂ Reduction Overpotential Using N-Annulated Perylene Diimide Rhenium Bipyridine Dyads with Variable Tether Length. <i>Journal of the American Chemical Society</i> , 2021, 143, 16849-16864.	14.6	18
43	What is special about silicon in functionalised organic semiconductors?. <i>Materials Advances</i> , 2021, 2, 5415-5421.	5.2	10
44	Group 14 effects in alkynyl acene small molecule semiconductors. , 2021, , .		0
45	Reconsidering the Roles of Noncovalent Intramolecular π -Locks in π -Conjugated Molecules. <i>Chemistry of Materials</i> , 2021, 33, 9139-9151.	7.1	12
46	Biotinylation as a tool to enhance the uptake of small molecules in Gram-negative bacteria. <i>PLoS ONE</i> , 2021, 16, e0260023.	2.5	5
47	Nanoribbons or weakly connected acenes? The influence of pyrene insertion on linearly extended ring systems. <i>Journal of Materials Chemistry C</i> , 2021, 9, 16929-16934.	5.6	5
48	Combined Computational and Experimental Approach to Determine and Understand the Solubility of Phenothiazines as Redoxmers. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 1679-1679.	0.0	0
49	Understanding the effect of host structure of nitrogen doped ultrananocrystalline diamond electrode on electrochemical carbon dioxide reduction. <i>Carbon</i> , 2020, 157, 408-419.	10.7	53
50	Rational Functionalization of a C ₇₀ Buckybowl To Enable a C ₇₀ :Buckybowl Cocrystal for Organic Semiconductor Applications. <i>Journal of the American Chemical Society</i> , 2020, 142, 2460-2470.	14.6	55
51	Nitration of benzothioxanthene: towards a new class of dyes with versatile photophysical properties. <i>New Journal of Chemistry</i> , 2020, 44, 900-905.	2.7	13
52	A Genetic Algorithmic Approach to Determine the Structure of Li-Al Layered Double Hydroxides. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 4845-4855.	5.7	4
53	Synthesis and electronic properties of a linearly fused anthracene dimer. <i>Tetrahedron Letters</i> , 2020, 61, 152182.	1.4	4
54	Acid dyeing for green solvent processing of solvent resistant semiconducting organic thin films. <i>Materials Horizons</i> , 2020, 7, 2959-2969.	12.8	27

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55	Determination of the Free Energies of Mixing of Organic Solutions through a Combined Molecular Dynamics and Bayesian Statistics Approach. <i>Journal of Chemical Information and Modeling</i> , 2020, 60, 1424-1431.	5.7	6
56	Exploiting Excited-State Aromaticity To Design Highly Stable Singlet Fission Materials. <i>Journal of the American Chemical Society</i> , 2019, 141, 13867-13876.	14.6	109
57	Even/Odd Alkyl Chain-Length Alternation Regulates Oligothiophene Crystal Structure. <i>Chemistry of Materials</i> , 2019, 31, 6900-6907.	7.1	23
58	Noncovalent Close Contacts in Fluorinated Thiophene-Phenylene-Thiophene Conjugated Units: Understanding the Nature and Dominance of O-H versus S-H and O-F Interactions with Respect to the Control of Polymer Conformation. <i>Chemistry of Materials</i> , 2019, 31, 7070-7079.	7.1	29
59	Festschrift in Honor of Prof. Jean-Luc Brédas on His 65th Birthday. <i>Chemistry of Materials</i> , 2019, 31, 6307-6308.	7.1	2
60	Organic Semiconductors Derived from Dinaphtho-Fused <i>s</i> -Indacenes: How Molecular Structure and Film Morphology Influence Thin-Film Transistor Performance. <i>Chemistry of Materials</i> , 2019, 31, 6962-6970.	7.1	41
61	Impact of Atomistic Substitution on Thin-Film Structure and Charge Transport in a Germanyl-ethynyl Functionalized Pentacene. <i>Chemistry of Materials</i> , 2019, 31, 6615-6623.	7.1	25
62	Enhancing CO ₂ absorption for post-combustion carbon capture via zinc-based biomimetic catalysts in industrially relevant amine solutions. <i>International Journal of Greenhouse Gas Control</i> , 2019, 85, 156-165.	4.6	11
63	Bis(tercarbazole) pyrene and tetrahydropyrene derivatives: photophysical and electrochemical properties, theoretical modeling, and OLEDs. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5009-5018.	5.6	16
64	Near-Infrared-Absorbing Indolizine-Porphyrin Push-Pull Dye for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16474-16489.	8.3	49
65	Triperylene[3,3,3]propellane triimides: achieving a new generation of quasi-D _{3h} symmetric nanostructures in organic electronics. <i>Chemical Science</i> , 2019, 10, 4951-4958.	7.8	22
66	Deconstructing the behavior of donor-acceptor copolymers in solution & the melt: the case of PTB7. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7802-7813.	2.9	11
67	Oxidation Pathways Involving a Sulfide-Endcapped Donor-Acceptor-Donor π -Conjugated Molecule and Antimony(V) Chloride. <i>Journal of Physical Chemistry B</i> , 2019, 123, 3866-3874.	2.7	8
68	Organometallic hydride-transfer agents as reductants for organic semiconductor molecules. <i>Inorganica Chimica Acta</i> , 2019, 489, 67-77.	2.5	8
69	Chemical Stabilities of the Lowest Triplet State in Aryl Sulfones and Aryl Phosphine Oxides Relevant to OLED Applications. <i>Chemistry of Materials</i> , 2019, 31, 1507-1519.	7.1	32
70	Solvent-Molecule Interactions Govern Crystal-Habit Selection in Naphthalene Tetracarboxylic Diimides. <i>Chemistry of Materials</i> , 2019, 31, 9691-9698.	7.1	7
71	Computationally aided design of a high-performance organic semiconductor: the development of a universal crystal engineering core. <i>Chemical Science</i> , 2019, 10, 10543-10549.	7.8	23
72	Positional Effects from π -Bonded Platinum(II) on Intersystem Crossing Rates in Perylene Diimide Complexes: Synthesis, Structures, and Photophysical Properties. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13848-13862.	3.3	19

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73	Bond Ellipticity Alternation: An Accurate Descriptor of the Nonlinear Optical Properties of π -Conjugated Chromophores. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1377-1383.	4.9	23
74	Delimited Polyacenes: Edge Topology as a Tool To Modulate Carbon Nanoribbon Structure, Conjugation, and Mobility. <i>Chemistry of Materials</i> , 2018, 30, 947-957.	7.1	27
75	Effect of Halogenation on the Energetics of Pure and Mixed Phases in Model Organic Semiconductors Composed of Anthradithiophene Derivatives and C ₆₀ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 4757-4767.	3.3	8
76	On the Molecular Origin of Charge Separation at the Donor–Acceptor Interface. <i>Advanced Energy Materials</i> , 2018, 8, 1702232.	22.2	52
77	Bromination of the benzothioxanthene Bloc: toward new π -conjugated systems for organic electronic applications. <i>Journal of Materials Chemistry C</i> , 2018, 6, 761-766.	5.6	23
78	Impact of rotamer diversity on the self-assembly of nearly isostructural molecular semiconductors. <i>Journal of Materials Chemistry A</i> , 2018, 6, 383-394.	10.5	19
79	Magnetic ordering in a vanadium-organic coordination polymer using a pyrrolo[2,3- <i>d</i> :5,4- <i>d'</i>]bis(thiazole)-based ligand. <i>RSC Advances</i> , 2018, 8, 36223-36232.	3.7	4
80	Exploring thermal transitions in anthradithiophene-based organic semiconductors to reveal structure-packing relationships. <i>Journal of Materials Chemistry C</i> , 2018, 6, 10924-10934.	5.6	4
81	Presence of Short Intermolecular Contacts Screens for Kinetic Stability in Packing Polymorphs. <i>Journal of the American Chemical Society</i> , 2018, 140, 7519-7525.	14.6	29
82	Donor or Acceptor? How Selection of the Rylene Imide End Cap Impacts the Polarity of π -Conjugated Molecules for Organic Electronics. <i>ACS Applied Energy Materials</i> , 2018, 1, 4906-4916.	5.3	34
83	Beyond the Hammett Effect: Using Strain to Alter the Landscape of Electrochemical Potentials. <i>ChemPhysChem</i> , 2017, 18, 2142-2146.	2.3	10
84	Assessment of Front-Substituted Zwitterionic Cyanine Polymethines for All-Optical Switching Applications. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14166-14175.	3.3	11
85	A stable two-electron-donating phenothiazine for application in nonaqueous redox flow batteries. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24371-24379.	10.5	114
86	An unsymmetrical non-fullerene acceptor: synthesis via direct heteroarylation, self-assembly, and utility as a low energy absorber in organic photovoltaic cells. <i>Chemical Communications</i> , 2017, 53, 10168-10171.	4.2	32
87	Crossover from band-like to thermally activated charge transport in organic transistors due to strain-induced traps. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6739-E6748.	7.6	79
88	Theory-Driven Insight into the Crystal Packing of Trialkylsilylethynyl Pentacenes. <i>Chemistry of Materials</i> , 2017, 29, 2502-2512.	7.1	30
89	Noncovalent Interactions in Organic Electronic Materials. , 2017, , 277-302.		10
90	Unusual Electronic Structure of the Donor–Acceptor Cocrystal Formed by Dithieno[3,2- <i>a</i> :2- <i>c'</i> :3- <i>c</i> :1- <i>b'</i>]phenazine and 7,7,8,8-Tetracyanoquinodimethane. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4510-4515.	4.9	16

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91	Indacenodibenzothiophenes: synthesis, optoelectronic properties and materials applications of molecules with strong antiaromatic character. <i>Chemical Science</i> , 2016, 7, 5547-5558.	7.8	105
92	Impact of Molecular Orientation and Packing Density on Electronic Polarization in the Bulk and at Surfaces of Organic Semiconductors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 14053-14062.	8.3	40
93	Noncovalent Interactions and Impact of Charge Penetration Effects in Linear Oligoacene Dimers and Single Crystals. <i>Chemistry of Materials</i> , 2016, 28, 3990-4000.	7.1	39
94	To bend or not to bend – are heteroatom interactions within conjugated molecules effective in dictating conformation and planarity?. <i>Materials Horizons</i> , 2016, 3, 333-339.	12.8	84
95	Work function reduction by a redox-active organometallic sandwich complex. <i>Organic Electronics</i> , 2016, 37, 263-270.	2.8	3
96	Understanding the Relationships Among Molecular Structure, Excited-State Properties, and Polarizabilities of π -Conjugated Chromophores. <i>Materials and Energy</i> , 2016, , 393-419.	0.0	1
97	High current density, long duration cycling of soluble organic active species for non-aqueous redox flow batteries. <i>Energy and Environmental Science</i> , 2016, 9, 3531-3543.	32.2	203
98	Packing and Disorder in Substituted Fullerenes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 17242-17250.	3.3	28
99	Polarization Energies at Organic–Organic Interfaces: Impact on the Charge Separation Barrier at Donor–Acceptor Interfaces in Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15524-15534.	8.3	29
100	Parallel and Perpendicular Packing in Mixed-Stack Cocrystals of Trimeric Perfluoro-ortho-phenylene Mercury and Benzo[1,2- <i>b</i> :6,5- <i>b'</i>]-dithiophene-4,5-dione Derivatives. <i>Crystal Growth and Design</i> , 2016, 16, 2190-2200.	3.2	5
101	Characterizing the Polymer:Fullerene Intermolecular Interactions. <i>Chemistry of Materials</i> , 2016, 28, 1446-1452.	7.1	20
102	Mixed-Valence Cations of Di(carbazol-9-yl) Biphenyl, Tetrahydropyrene, and Pyrene Derivatives. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3156-3166.	3.3	20
103	Strain effects on the work function of an organic semiconductor. <i>Nature Communications</i> , 2016, 7, 10270.	13.2	78
104	Intrinsic Properties of Two Benzodithiophene-Based Donor–Acceptor Copolymers Used in Organic Solar Cells: A Quantum-Chemical Approach. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1051-1064.	2.6	9
105	Overcharge protection of lithium-ion batteries above 4 V with a perfluorinated phenothiazine derivative. <i>Journal of Materials Chemistry A</i> , 2016, 4, 5410-5414.	10.5	25
106	On the impact of isomer structure and packing disorder in thienoacene organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4040-4048.	5.6	29
107	Mapping the configuration dependence of electronic coupling in organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3825-3832.	5.6	14
108	Noncovalent Intermolecular Interactions in Organic Electronic Materials: Implications for the Molecular Packing vs Electronic Properties of Acenes. <i>Chemistry of Materials</i> , 2016, 28, 3-16.	7.1	226

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109	n-Dopants Based on Dimers of Benzimidazoline Radicals: Structures and Mechanism of Redox Reactions. <i>Chemistry - A European Journal</i> , 2015, 21, 10878-10885.	3.9	36
110	Entanglements in P3HT and their influence on thin-film mechanical properties: Insights from molecular dynamics simulations. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2015, 53, 934-942.	2.4	60
111	Distinguishing the Effects of Bond-Length Alternation versus Bond-Order Alternation on the Nonlinear Optical Properties of π -Conjugated Chromophores. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2158-2162.	4.9	78
112	The fate of phenothiazine-based redox shuttles in lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6905-6912.	2.9	41
113	Dimers of Nineteen-Electron Sandwich Compounds: An Electrochemical Study of the Kinetics of Their Formation. <i>Organometallics</i> , 2015, 34, 3706-3712.	2.6	9
114	Rubrene: The Interplay between Intramolecular and Intermolecular Interactions Determines the Planarization of Its Tetracene Core in the Solid State. <i>Journal of the American Chemical Society</i> , 2015, 137, 8775-8782.	14.6	59
115	Nonlinear Optical Properties of $X(C_6H_5)_4$ ($X = B^+, C$). <i>Journal of the American Chemical Society</i> , 2015, 137, 9635-9642.	14.6	22
116	Molecular-Scale Understanding of Cohesion and Fracture in P3HT:Fullerene Blends. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9957-9964.	8.3	60
117	Dynamics, Miscibility, and Morphology in Polymer:Molecule Blends: The Impact of Chemical Functionality. <i>Chemistry of Materials</i> , 2015, 27, 7643-7651.	7.1	18
118	Effect of Solvent Additives on the Solution Aggregation of Phenyl-C ₆₁ -Butyl Acid Methyl Ester (PCBM). <i>Chemistry of Materials</i> , 2015, 27, 8261-8272.	7.1	28
119	<i>N</i> -Substituted Phenothiazine Derivatives: How the Stability of the Neutral and Radical Cation Forms Affects Overcharge Performance in Lithium-Ion Batteries. <i>ChemPhysChem</i> , 2015, 16, 1179-1189.	2.3	62
120	Heteroannulated acceptors based on benzothiadiazole. <i>Materials Horizons</i> , 2015, 2, 22-36.	12.8	130
121	Theoretical description of the geometric and electronic structures of organic-organic interfaces in organic solar cells: a brief review. <i>Science China Chemistry</i> , 2014, 57, 1330-1339.	8.8	6
122	Dimers of Nineteen-Electron Sandwich Compounds: Crystal and Electronic Structures, and Comparison of Reducing Strengths. <i>Chemistry - A European Journal</i> , 2014, 20, 15385-15394.	3.9	43
123	Structure and Disorder in Squaraine-C ₆₀ Organic Solar Cells: A Theoretical Description of Molecular Packing and Electronic Coupling at the Donor-Acceptor Interface. <i>Advanced Functional Materials</i> , 2014, 24, 3790-3798.	16.5	45
124	Impact of Molecular Packing on Electronic Polarization in Organic Crystals: The Case of Pentacene vs TIPS-Pentacene. <i>Journal of the American Chemical Society</i> , 2014, 136, 6421-6427.	14.6	117
125	Substrate-Induced Variations of Molecular Packing, Dynamics, and Intermolecular Electronic Couplings in Pentacene Monolayers on the Amorphous Silica Dielectric. <i>ACS Nano</i> , 2014, 8, 690-700.	15.3	26
126	Ring Substituents Mediate the Morphology of PBDTPD-PCBM Bulk-Heterojunction Solar Cells. <i>Chemistry of Materials</i> , 2014, 26, 2299-2306.	7.1	121

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127	25th Anniversary Article: Design of Polymethine Dyes for All-Optical Switching Applications: Guidance from Theoretical and Computational Studies. <i>Advanced Materials</i> , 2014, 26, 68-84.	24.3	99
128	Interplay of alternative conjugated pathways and steric interactions on the electronic and optical properties of donor-acceptor conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8873-8879.	5.6	25
129	Effect of Bulky Substituents on Thiopyrylium Polymethine Aggregation in the Solid State: A Theoretical Evaluation of the Implications for All-Optical Switching Applications. <i>Chemistry of Materials</i> , 2014, 26, 6439-6447.	7.1	18
130	Impact of the Nature of the Excited-State Transition Dipole Moments on the Third-Order Nonlinear Optical Response of Polymethine Dyes for All-Optical Switching Applications. <i>ACS Photonics</i> , 2014, 1, 261-269.	6.9	36
131	Influence of Molecular Shape on Solid-State Packing in Disordered PC ₆₁ BM and PC ₇₁ BM Fullerenes. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3427-3433.	4.9	41
132	Polymethine materials with solid-state third-order optical susceptibilities suitable for all-optical signal-processing applications. <i>Materials Horizons</i> , 2014, 1, 577-581.	12.8	60
133	Impact of Bulk Aggregation on the Electronic Structure of Streptocyanines: Implications for the Solid-State Nonlinear Optical Properties and All-Optical Switching Applications. <i>Journal of Physical Chemistry C</i> , 2014, 118, 23575-23585.	3.3	20
134	Structure-property correlations in solution-processed, small-molecule, organic solar cells. <i>Journal of Materials Chemistry C</i> , 2013, 1, 5250.	5.6	22
135	Healing contact. <i>Nature Materials</i> , 2013, 12, 1084-1085.	26.6	3
136	Understanding the Electronic Structure of Isoindigo in Conjugated Systems: A Combined Theoretical and Experimental Approach. <i>Macromolecules</i> , 2013, 46, 8832-8844.	5.1	65
137	Characterization of Charge-Carrier Transport in Semicrystalline Polymers: Electronic Couplings, Site Energies, and Charge-Carrier Dynamics in Poly(bithiophene-thienothiophene) [PBTTT]. <i>Journal of Physical Chemistry C</i> , 2013, 117, 1633-1640.	3.3	94
138	Benzo[1,2-b:6,5-b']dithiophene(dithiazole)-4,5-dione derivatives: synthesis, electronic properties, crystal packing and charge transport. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1467.	5.6	23
139	Tuning the electronic and photophysical properties of heteroleptic iridium(III) phosphorescent emitters through ancillary ligand substitution: a theoretical perspective. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6293.	2.9	41
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