

# Mark A Ratner

## List of Publications by Year in descending order

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332  
papers

40,680  
citations

3933

88  
h-index

2448

197  
g-index

343  
all docs

343  
docs citations

343  
times ranked

29230  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Vibronic Coupling on Ultrafast Singlet Fission in a Linear Terrylenediimide Dimer. <i>Journal of the American Chemical Society</i> , 2021, 143, 2049-2058.	13.7	32
2	Second Linear Response Theory and the Analytic Calculation of Excited-State Properties. <i>Journal of Physical Chemistry A</i> , 2021, 125, 1093-1102.	2.5	4
3	Tunable Symmetry-Breaking-Induced Dual Functions in Stable and Photoswitched Single-Molecule Junctions. <i>Journal of the American Chemical Society</i> , 2021, 143, 20811-20817.	13.7	30
4	Control of Charge Carriers and Band Structure in 2D Monolayer Molybdenum Disulfide via Covalent Functionalization. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 4607-4615.	8.0	19
5	Atom vacancies and electronic transmission Stark effects in boron nanoflake junctions. <i>Journal of Materials Chemistry C</i> , 2020, 8, 15208-15218.	5.5	0
6	Two-photon excited deep-red and near-infrared emissive organic co-crystals. <i>Nature Communications</i> , 2020, 11, 4633.	12.8	82
7	Thermodynamics and Mechanism of a Photocatalyzed Stereoselective [2 + 2] Cycloaddition on a CdSe Quantum Dot. <i>Journal of the American Chemical Society</i> , 2020, 142, 15488-15495.	13.7	13
8	Domain Separated Density Functional Theory for Reaction Energy Barriers and Optical Excitations. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5954-5962.	2.5	0
9	Quantum embedding for material chemistry based on domain separation and open subsystems. <i>International Journal of Quantum Chemistry</i> , 2020, 120, e26184.	2.0	4
10	Analytical Approaches To Identify Plasmon-like Excited States in Bare and Ligand-Protected Metal Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3260-3269.	3.1	19
11	Orbital Control and Coherent Charge Transport in Transition Metal Platinum(II)â€“Platinum(II) Lantern Complexes in Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3233-3241.	3.1	4
12	Embedding Methods for Quantum Chemistry: Applications from Materials to Life Sciences. <i>Journal of the American Chemical Society</i> , 2020, 142, 3281-3295.	13.7	81
13	Are Transport Models Able To Predict Charge Carrier Mobilities in Organic Semiconductors?. <i>Journal of Physical Chemistry C</i> , 2019, 123, 29499-29512.	3.1	12
14	Quantum Interference and Substantial Property Tuning in Conjugated <i>ortho</i> -Regio-Resistive Organic (ZORRO) Junctions. <i>Nano Letters</i> , 2019, 19, 8956-8963.	9.1	10
15	Molecular Junctions Inspired by Nature: Electrical Conduction through Noncovalent Nanobelts. <i>Journal of Physical Chemistry B</i> , 2019, 123, 8096-8102.	2.6	9
16	Photodriven quantum teleportation of an electron spin state in a covalent donorâ€“acceptorâ€“radical system. <i>Nature Chemistry</i> , 2019, 11, 981-986.	13.6	83
17	Domain Separation in Density Functional Theory. <i>Journal of Physical Chemistry A</i> , 2019, 123, 4785-4795.	2.5	10
18	Concepts in the design and engineering of single-molecule electronic devices. <i>Nature Reviews Physics</i> , 2019, 1, 211-230.	26.6	327

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19	Charge Transport and Thermoelectric Properties of Carbon Sulfide Nanobelts in Single-Molecule Sensors. <i>Chemistry of Materials</i> , 2019, 31, 6506-6518.	6.7	14
20	Steric Interactions Impact Vibronic and Vibrational Coherences in Perylenediimide Cyclophanes. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7498-7504.	4.6	19
21	Germanium Fluoride Nanocages as Optically Transparent n-Type Materials and Their Endohedral Metallofullerene Derivatives. <i>Journal of the American Chemical Society</i> , 2019, 141, 1672-1684.	13.7	10
22	SERS Theory: The Chemical Effect of Rhodamine 6G Adsorption on Silver Surfaces on Its Raman Spectrum. , 2018, , 401-414.		1
23	Measuring Dipole Inversion in Self-Assembled Nano-Dielectric Molecular Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 6484-6490.	8.0	4
24	Deducing the Adsorption Geometry of Rhodamine 6G from the Surface-Induced Mode Renormalization in Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 465-473.	3.1	19
25	Conduction of Metalâ€“Thin Organic Filmâ€“Metal Junctions at Low Bias. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7557-7563.	3.1	3
26	Wave Functions, Density Functionals, and Artificial Intelligence for Materials and Energy Research: Future Prospects and Challenges. <i>ACS Energy Letters</i> , 2018, 3, 155-162.	17.4	16
27	Development of formalisms based on locally coupled open subsystems for calculations in molecular electronic structure and dynamics. <i>Physical Review A</i> , 2018, 98, .	2.5	3
28	Designing Principles of Molecular Quantum Interference Effect Transistors. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2843-2847.	4.6	15
29	Introduction to Organic Semiconductors Using Accessible Undergraduate Chemistry Concepts. <i>Journal of Chemical Education</i> , 2018, 95, 1500-1511.	2.3	4
30	Locally coupled open subsystems: A formalism for affordable electronic structure calculations featuring fractional charges and size consistency. <i>Journal of Chemical Physics</i> , 2018, 149, 034105.	3.0	6
31	Probing Molecularâ€“Transport Properties using the Superconducting Proximity Effect. <i>Small Methods</i> , 2017, 1, 1600034.	8.6	4
32	Exciton Absorption Spectra by Linear Response Methods: Application to Conjugated Polymers. <i>Journal of the American Chemical Society</i> , 2017, 139, 3728-3735.	13.7	17
33	Gate-controlled conductance switching in DNA. <i>Nature Communications</i> , 2017, 8, 14471.	12.8	103
34	Effect of the reflectional symmetry on the coherent hole transport across DNA hairpins. <i>Journal of Chemical Physics</i> , 2017, 146, 114105.	3.0	4
35	Systematic evaluation of structureâ€“property relationships in heteroacene â€“ diketopyrrolopyrrole molecular donors for organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9217-9232.	10.3	31
36	A Study of Electrocyclic Reactions in a Molecular Junction: Mechanistic and Energetic Requirements for Switching in the Coulomb Blockade Regime. <i>ChemPhysChem</i> , 2017, 18, 1492-1492.	2.1	0

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37	A Study of Electrocyclic Reactions in a Molecular Junction: Mechanistic and Energetic Requirements for Switching in the Coulomb Blockade Regime. <i>ChemPhysChem</i> , 2017, 18, 1517-1525.	2.1	2
38	Using coherence to enhance function in chemical and biophysical systems. <i>Nature</i> , 2017, 543, 647-656.	27.8	477
39	Stepwise "Dark Photoswitching" of Photochromic Dimers in a Junction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3163-3170.	3.1	3
40	Improved Scaling of Molecular Network Calculations: The Emergence of Molecular Domains. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 415-421.	4.6	14
41	Semiempirical modeling of electrochemical charge transfer. <i>Faraday Discussions</i> , 2017, 199, 547-563.	3.2	17
42	Spin-Selective Photoreduction of a Stable Radical within a Covalent Donor"Acceptor"Radical Triad. <i>Journal of the American Chemical Society</i> , 2017, 139, 15660-15663.	13.7	33
43	Can Molecular Quantum Interference Effect Transistors Survive Vibration?. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5166-5170.	4.6	14
44	Resonant energy transfer under the influence of the evanescent field from the metal. <i>Journal of Chemical Physics</i> , 2017, 146, 244115.	3.0	1
45	A Silicon Ratchet to Produce Power from Below-Bandgap Photons. <i>Advanced Energy Materials</i> , 2017, 7, 1701000.	19.5	8
46	Light-responsive organic flashing electron ratchet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8698-8703.	7.1	33
47	Hydrogenation of CO to Methanol on Ni(110) through Subsurface Hydrogen. <i>Journal of the American Chemical Society</i> , 2017, 139, 17582-17589.	13.7	35
48	Chain Length Dependence of the Dielectric Constant and Polarizability in Conjugated Organic Thin Films. <i>ACS Nano</i> , 2017, 11, 5970-5981.	14.6	38
49	Enhanced Light Absorption in Fluorinated Ternary Small-Molecule Photovoltaics. <i>ACS Energy Letters</i> , 2017, 2, 1690-1697.	17.4	33
50	Quantum Mechanical Identification of Quadrupolar Plasmonic Excited States in Silver Nanorods. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9324-9329.	2.5	17
51	Review of Plasmon-Induced Hot-Electron Dynamics and Related SERS Chemical Effects. <i>ACS Symposium Series</i> , 2016, , 1-22.	0.5	19
52	Sequential double excitations from linear-response time-dependent density functional theory. <i>Journal of Chemical Physics</i> , 2016, 144, 204105.	3.0	21
53	A n-vector model for charge transport in molecular semiconductors. <i>Journal of Chemical Physics</i> , 2016, 145, 204102.	3.0	6
54	Photophysical and Morphological Implications of Single-Strand Conjugated Polymer Folding in Solution. <i>Chemistry of Materials</i> , 2016, 28, 2814-2822.	6.7	76

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55	Boron Subphthalocyanine Based Molecular Triad Systems for the Capture of Solar Energy. <i>Journal of Physical Chemistry A</i> , 2016, 120, 7694-7703.	2.5	10
56	Computation of Dielectric Response in Molecular Solids for High Capacitance Organic Dielectrics. <i>Accounts of Chemical Research</i> , 2016, 49, 1614-1623.	15.6	21
57	Deep-hole transfer leads to ultrafast charge migration in DNA hairpins. <i>Nature Chemistry</i> , 2016, 8, 1015-1021.	13.6	56
58	Identification of two mechanisms for current production in a biharmonic flashing electron ratchet. <i>Physical Review E</i> , 2016, 93, 062128.	2.1	18
59	Charge transport network dynamics in molecular aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8595-8600.	7.1	24
60	Polarizability as a Molecular Descriptor for Conductance in Organic Molecular Circuits. <i>Journal of Physical Chemistry C</i> , 2016, 120, 26054-26060.	3.1	16
61	Electronic Structure and Potential Reactivity of Silaaromatic Molecules. <i>Journal of Physical Chemistry A</i> , 2016, 120, 9476-9488.	2.5	13
62	Semiempirical Modeling of Ag Nanoclusters: New Parameters for Optical Property Studies Enable Determination of Double Excitation Contributions to Plasmonic Excitation. <i>Journal of Physical Chemistry A</i> , 2016, 120, 4542-4549.	2.5	45
63	Covalently bonded single-molecule junctions with stable and reversible photoswitched conductivity. <i>Science</i> , 2016, 352, 1443-1445.	12.6	697
64	Non-exponential Length Dependence of Conductance in Iodide-Terminated Oligothiophene Single-Molecule Tunneling Junctions. <i>Journal of the American Chemical Society</i> , 2016, 138, 679-687.	13.7	59
65	Computational Study of the Influence of the Binding Geometries of Organic Ligands on the Photoluminescence Quantum Yield of CdSe Clusters. <i>Journal of Physical Chemistry C</i> , 2016, 120, 6859-6868.	3.1	29
66	Two-Dimensional $\hat{I}^3$ -Graphyne Suspended on Si(111): A Hybrid Device. <i>Journal of Physical Chemistry C</i> , 2016, 120, 4605-4611.	3.1	16
67	Ring-fusion as a perylenediimide dimer design concept for high-performance non-fullerene organic photovoltaic acceptors. <i>Chemical Science</i> , 2016, 7, 3543-3555.	7.4	168
68	Enhancement of Resonant Energy Transfer Due to an Evanescent Wave from the Metal. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 955-960.	4.6	20
69	Connection between Hybrid Functionals and Importance of the Local Density Approximation. <i>Journal of Physical Chemistry A</i> , 2016, 120, 1605-1612.	2.5	13
70	Spin polarization transfer by the radical pair mechanism. <i>Journal of Chemical Physics</i> , 2015, 143, 054101.	3.0	13
71	Piezoresistivity in single DNA molecules. <i>Nature Communications</i> , 2015, 6, 8032.	12.8	36
72	Harnessing Quantum Interference in Molecular Dielectric Materials. <i>ACS Nano</i> , 2015, 9, 6412-6418.	14.6	26

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73	Conformationally Gated Charge Transfer in DNA Three-Way Junctions. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2434-2438.	4.6	23
74	Molecular Donor–“Bridge”–Acceptor Strategies for High-Capacitance Organic Dielectric Materials. <i>Journal of the American Chemical Society</i> , 2015, 137, 7189-7196.	13.7	35
75	Influence of Coherent Tunneling and Incoherent Hopping on the Charge Transfer Mechanism in Linear Donor–“Bridge”–Acceptor Systems. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 4889-4897.	4.6	32
76	Intermediate tunnelling–“hopping regime in DNA charge transport. <i>Nature Chemistry</i> , 2015, 7, 221-226.	13.6	204
77	Towards graphene molecular electronics. <i>Nature Communications</i> , 2015, 6, 6321.	12.8	135
78	A Simple Index for Characterizing Charge Transport in Molecular Materials. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1018-1021.	4.6	27
79	Large Dipolar Spin–Spin Interaction in a Photogenerated U-Shaped Triradical. <i>Journal of Physical Chemistry A</i> , 2015, 119, 8040-8048.	2.5	8
80	Diketopyrrolopyrrole (DPP) functionalized tetrathienothiophene (TTA) small molecules for organic thin film transistors and photovoltaic cells. <i>Journal of Materials Chemistry C</i> , 2015, 3, 8932-8941.	5.5	48
81	Conformational Order in Aggregates of Conjugated Polymers. <i>Journal of the American Chemical Society</i> , 2015, 137, 6254-6262.	13.7	177
82	Molecular Rectifiers: A New Design Based on Asymmetric Anchoring Moieties. <i>Nano Letters</i> , 2015, 15, 1577-1584.	9.1	138
83	Metal-Free Tetrathienoacene Sensitizers for High-Performance Dye-Sensitized Solar Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 4414-4423.	13.7	243
84	Is Molecular Rectification Caused by Asymmetric Electrode Couplings or by a Molecular Bias Drop?. <i>Journal of Physical Chemistry C</i> , 2015, 119, 6254-6260.	3.1	41
85	Charge Transport across DNA-Based Three-Way Junctions. <i>Journal of the American Chemical Society</i> , 2015, 137, 5113-5122.	13.7	39
86	Comment on “Frequency-domain stimulated and spontaneous light emission signals at molecular junctions” [J. Chem. Phys. 141, 074107 (2014)]. <i>Journal of Chemical Physics</i> , 2015, 142, 137101.	3.0	5
87	Ultra-High-Response, Multiply Twisted Electro-optic Chromophores: Influence of $\pi$ -System Elongation and Interplanar Torsion on Hyperpolarizability. <i>Journal of the American Chemical Society</i> , 2015, 137, 12521-12538.	13.7	60
88	The Next Breakthrough for Organic Photovoltaics?. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 77-84.	4.6	126
89	The Scope and Limitations of Ternary Blend Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2015, 5, 1400891.	19.5	116
90	Maximizing the Dielectric Response of Molecular Thin Films <i>via</i> Quantum Chemical Design. <i>ACS Nano</i> , 2014, 8, 12587-12600.	14.6	23

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91	Modeling light-induced charge transfer dynamics across a metal-molecule-metal junction: Bridging classical electrodynamics and quantum dynamics. <i>Journal of Chemical Physics</i> , 2014, 141, 224104.	3.0	8
92	Innentitelbild: Organic Photovoltaics: Elucidating the Ultra-Fast Exciton Dissociation Mechanism in Disordered Materials ( <i>Angew. Chem.</i> 29/2014). <i>Angewandte Chemie</i> , 2014, 126, 7500-7500.	2.0	0
93	Electron transfer in a two-level system within a Cole-Davidson vitreous bath. <i>Journal of Chemical Physics</i> , 2014, 140, 024110.	3.0	4
94	“Supersaturated” Self-Assembled Charge-Selective Interfacial Layers for Organic Solar Cells. <i>Journal of the American Chemical Society</i> , 2014, 136, 17762-17773.	13.7	36
95	Unequal Partnership: Asymmetric Roles of Polymeric Donor and Fullerene Acceptor in Generating Free Charge. <i>Journal of the American Chemical Society</i> , 2014, 136, 2876-2884.	13.7	235
96	Single-Molecule Sensing of Environmental pH at an STM Break Junction and NEGF-DFT Approach. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1098-1102.	13.8	82
97	Modeling ion sensing in molecular electronics. <i>Journal of Chemical Physics</i> , 2014, 140, 054709.	3.0	11
98	Emergent Properties in Locally Ordered Molecular Materials. <i>Israel Journal of Chemistry</i> , 2014, 54, 454-466.	2.3	1
99	Organic Photovoltaics: Elucidating the Ultra-Fast Exciton Dissociation Mechanism in Disordered Materials. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7456-7460.	13.8	42
100	Interference and Molecular Transport—A Dynamical View: Time-Dependent Analysis of Disubstituted Benzenes. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 2748-2752.	4.6	40
101	Structural and Conformational Dispersion in the Rational Design of Conjugated Polymers. <i>Macromolecules</i> , 2014, 47, 987-992.	4.8	42
102	Mesoscale molecular network formation in amorphous organic materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10055-10060.	7.1	79
103	Hot Injection Processes in Optically Excited States: Molecular Design for Optimized Photocapture. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21798-21805.	3.1	4
104	QM/MM Study of Photoinduced Reduction of a Tetrahedral Ag <sub>20</sub> Cluster by a Ag Atom. <i>Journal of Physical Chemistry C</i> , 2014, 118, 1755-1762.	3.1	12
105	Effect of Anchoring Groups on Single Molecule Charge Transport through Porphyrins. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14890-14898.	3.1	88
106	Substantial Recoverable Energy Storage in Percolative Metallic Aluminum-Polypropylene Nanocomposites. <i>Advanced Functional Materials</i> , 2013, 23, 3560-3569.	14.9	87
107	Forty years of molecular electronics: Non-equilibrium heat and charge transport at the nanoscale. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2249-2266.	1.5	84
108	Spin Transport of Polyacetylene Chains Bridging Zigzag Graphene Nanoribbon Electrodes: A Nonequilibrium Treatment of Structural Control and Spin Filtering. <i>Journal of Physical Chemistry C</i> , 2013, 117, 21178-21185.	3.1	16

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109	Microphase separation as the cause of structural complexity in 2D liquids. <i>Soft Matter</i> , 2013, 9, 10042.	2.7	6
110	Electron-Phonon Coupling Effect on Charge Transfer in Nanostructures. <i>Journal of Physical Chemistry C</i> , 2013, 117, 850-857.	3.1	6
111	$\pi$ -Dimerization of viologen subunits around the core of C60 from twelve to six directions. <i>Chemical Science</i> , 2013, 4, 1462.	7.4	47
112	Reassessing the use of one-electron energetics in the design and characterization of organic photovoltaics. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 4538.	2.8	60
113	Mapping the Relation between Stacking Geometries and Singlet Fission Yield in a Class of Organic Crystals. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1065-1069.	4.6	133
114	Photoinitiated multi-step charge separation and ultrafast charge transfer induced dissociation in a pyridyl-linked photosensitizer-cobaloxime assembly. <i>Energy and Environmental Science</i> , 2013, 6, 1917.	30.8	81
115	A brief history of molecular electronics. <i>Nature Nanotechnology</i> , 2013, 8, 378-381.	31.5	403
116	First-Principles Calculation of Dielectric Response in Molecule-Based Materials. <i>Journal of the American Chemical Society</i> , 2013, 135, 9753-9759.	13.7	21
117	Controlling Conformations of Conjugated Polymers and Small Molecules: The Role of Nonbonding Interactions. <i>Journal of the American Chemical Society</i> , 2013, 135, 10475-10483.	13.7	386
118	Simple Analytic Description of Collection Efficiency in Organic Photovoltaics. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 704-709.	4.6	17
119	Sustainable High Capacitance at High Frequencies: Metallic Aluminum-Polypropylene Nanocomposites. <i>ACS Nano</i> , 2013, 7, 396-407.	14.6	42
120	The role of dimensionality in the decay of surface effects. <i>Journal of Chemical Physics</i> , 2013, 138, 084707.	3.0	9
121	Polaron formation: Ehrenfest dynamics vs. exact results. <i>Journal of Chemical Physics</i> , 2013, 138, 044112.	3.0	21
122	Simulating strong field control of axial chirality using optimal control theory. <i>Molecular Physics</i> , 2012, 110, 1941-1952.	1.7	15
123	Energy Storage: Enhanced Energy Storage and Suppressed Dielectric Loss in Oxide Core-Shell-Polyolefin Nanocomposites by Moderating Internal Surface Area and Increasing Shell Thickness ( <i>Adv. Mater.</i> 44/2012). <i>Advanced Materials</i> , 2012, 24, 5945-5945.	21.0	1
124	Catalysis by a Zinc-Porphyrin-Based Metal-Organic Framework: From Theory to Computational Design. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23494-23502.	3.1	33
125	Enhanced Energy Storage and Suppressed Dielectric Loss in Oxide Core-Shell-Polyolefin Nanocomposites by Moderating Internal Surface Area and Increasing Shell Thickness. <i>Advanced Materials</i> , 2012, 24, 5946-5953.	21.0	127
126	Defects in DNA: Lessons from Molecular Motor Design. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 689-693.	4.6	11



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127	Bithiopheneimideâ€“Dithienosilole/Dithienogermole Copolymers for Efficient Solar Cells: Information from Structureâ€“Propertyâ€“Device Performance Correlations and Comparison to Thieno[3,4- <i>c</i> ]pyrrole-4,6-dione Analogues. <i>Journal of the American Chemical Society</i> , 2012, 134, 18427-18439.	13.7	257
128	Yield of exciton dissociation in a donorâ€“acceptor photovoltaic junction. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 14270.	2.8	22
129	Modeling geminate pair dissociation in organic solar cells: high power conversion efficiencies achieved with moderate optical bandgaps. <i>Energy and Environmental Science</i> , 2012, 5, 8343.	30.8	46
130	Laser alignment as a route to ultrafast control of electron transport through junctions. <i>Physical Review A</i> , 2012, 86, .	2.5	11
131	Computational Modeling of Plasmon-Enhanced Light Absorption in a Multicomponent Dye Sensitized Solar Cell. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10215-10221.	3.1	59
132	Structural and Electrical Functionality of NiO Interfacial Films in Bulk Heterojunction Organic Solar Cells. <i>Chemistry of Materials</i> , 2011, 23, 2218-2226.	6.7	157
133	Molecular Conduction through Adlayers: Cooperative Effects Can Help or Hamper Electron Transport. <i>Nano Letters</i> , 2011, 11, 4693-4696.	9.1	38
134	Understanding and Controlling Crosstalk between Parallel Molecular Wires. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 1667-1671.	4.6	32
135	Tunneling Currents That Increase with Molecular Elongation. <i>Journal of the American Chemical Society</i> , 2011, 133, 15714-15720.	13.7	34
136	Organic solar cells: A new look at traditional models. <i>Energy and Environmental Science</i> , 2011, 4, 4410.	30.8	399
137	The iterative self-consistent reaction-field method: The refractive index of pure water. <i>International Journal of Quantum Chemistry</i> , 2011, 111, 904-913.	2.0	5
138	Rylene and Related Diimides for Organic Electronics. <i>Advanced Materials</i> , 2011, 23, 268-284.	21.0	1,548
139	Theoretical calculation of the photo-induced electron transfer rate between a gold atom and a gold cation solvated in CCl <sub>4</sub> . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 221, 143-147.	3.9	9
140	Probing the surface-to-bulk transition: A closed-form constant-scaling algorithm for computing subsurface Green functions. <i>Physical Review B</i> , 2011, 83, .	3.2	18
141	Variable Temperature Mobility Analysis of n-Channel, p-Channel, and Ambipolar Organic Field-Effect Transistors. <i>Advanced Functional Materials</i> , 2010, 20, 50-58.	14.9	93
142	Efficiency Enhancement in Organic Photovoltaic Cells: Consequences of Optimizing Series Resistance. <i>Advanced Functional Materials</i> , 2010, 20, 97-104.	14.9	260
143	Phenacylâ€“Thiophene and Quinone Semiconductors Designed for Solution Processability and Air-Stability in High Mobility n-Channel Field-Effect Transistors. <i>Chemistry - A European Journal</i> , 2010, 16, 1911-1928.	3.3	60
144	Electron tunneling through sensitizer wires bound to proteins. <i>Coordination Chemistry Reviews</i> , 2010, 254, 248-253.	18.8	29

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145	Exploring local currents in molecular junctions. <i>Nature Chemistry</i> , 2010, 2, 223-228.	13.6	375
146	Molecular modulation of Schottky barrier height in metal-molecule-silicon diodes: Capacitance and simulation results. <i>Journal of Applied Physics</i> , 2010, 107, 024505.	2.5	15
147	Understanding Coherent Transport through $\pi$ -Stacked Systems upon Spatial Dislocation. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14735-14744.	2.6	32
148	Controlling Electron Transfer in Donor-Bridge-Acceptor Molecules Using Cross-Conjugated Bridges. <i>Journal of the American Chemical Society</i> , 2010, 132, 15427-15434.	13.7	144
149	Local Pathways in Coherent Electron Transport through Iron Porphyrin Complexes: A Challenge for First-Principles Transport Calculations. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20813-20820.	3.1	21
150	Weibull Analysis of Dielectric Breakdown in a Self-Assembled Nanodielectric for Organic Transistors. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 3292-3297.	4.6	38
151	In Situ Catalytic Encapsulation of Core-Shell Nanoparticles Having Variable Shell Thickness: Dielectric and Energy Storage Properties of High-Permittivity Metal Oxide Nanocomposites. <i>Chemistry of Materials</i> , 2010, 22, 5154-5164.	6.7	183
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