Alessandro Troisi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

176
papers9,785
citations55
h-index93
g-index190
ext. papers10,593
ext. citations8.4
avg, IF6.99
L-index

#	Paper	IF	Citations
176	Organic materials repurposing, a data set for theoretical predictions of new applications for existing compounds <i>Scientific Data</i> , 2022 , 9, 54	8.2	5
175	Feasibility of p-Doped Molecular Crystals as Transparent Conductive Electrodes via Virtual Screening <i>Chemistry of Materials</i> , 2022 , 34, 4050-4061	9.6	
174	Bright Frenkel Excitons in Molecular Crystals: A Survey. <i>Chemistry of Materials</i> , 2021 , 33, 3368-3378	9.6	5
173	Computational Identification of Novel Families of Nonfullerene Acceptors by Modification of Known Compounds. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 5009-5015	6.4	6
172	Rapid Method for Calculating the Conformationally Averaged Electronic Structure of Conjugated Polymers. <i>Journal of Physical Chemistry B</i> , 2021 , 125, 6338-6348	3.4	6
171	Novel thermally activated delayed fluorescence materials by high-throughput virtual screening: going beyond donor design. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 3324-3333	7.1	12
170	Quantitative Prediction of the Electro-Mechanical Response in Organic Crystals. <i>Advanced Materials</i> , 2021 , 33, e2008049	24	11
169	High-throughput virtual screening for organic electronics: a comparative study of alternative strategies. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 13557-13583	7.1	4
168	Determining usefulness of machine learning in materials discovery using simulated research landscapes. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 14156-14163	3.6	6
167	Local structuring of diketopyrrolopyrrole (DPP)-based oligomers from molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 19693-19707	3.6	2
166	Modeling charge transport in high-mobility molecular semiconductors: Balancing electronic structure and quantum dynamics methods with the help of experiments. <i>Journal of Chemical Physics</i> , 2020 , 152, 190902	3.9	17
165	On the Largest Possible Mobility of Molecular Semiconductors and How to Achieve It. <i>Advanced Functional Materials</i> , 2020 , 30, 2001906	15.6	22
164	Predictive Model of Charge Mobilities in Organic Semiconductor Small Molecules with Force-Matched Potentials. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 3494-3503	6.4	10
163	Elucidating the Relationship between Multiradical Character and Predicted Singlet Fission Activity. <i>ChemPhotoChem</i> , 2020 , 4, 5223-5229	3.3	8
162	A QM/MD Coupling Method to Model the Ion-Induced Polarization of Graphene. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 5253-5263	6.4	8
161	Relation between Local Structure, Electric Dipole, and Charge Carrier Dynamics in DHICA Melanin: A Model for Biocompatible Semiconductors. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 1045-1051	6.4	10
160	Ethylene Glycol-Based Side Chain Length Engineering in Polythiophenes and its Impact on Organic Electrochemical Transistor Performance. <i>Chemistry of Materials</i> , 2020 , 32, 6618-6628	9.6	47

(2018-2020)

159	Exploring Charge Dissociation in a Statistical Sample of Active-Layer Models of an Organic Solar Cell. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 18840-18846	3.8	3	
158	Effect of Increasing the Descriptor Set on Machine Learning Prediction of Small Molecule-Based Organic Solar Cells. <i>Chemistry of Materials</i> , 2020 , 32, 7777-7787	9.6	26	
157	Strategies to reduce the dynamic disorder in molecular semiconductors. <i>Materials Horizons</i> , 2020 , 7, 29	2 2 -12.192	28 10	
156	Direct probe of the nuclear modes limiting charge mobility in molecular semiconductors. <i>Materials Horizons</i> , 2019 , 6, 182-191	14.4	37	
155	Exciton-Phonon Interaction Model for Singlet Fission in Prototypical Molecular Crystals. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 3721-3729	6.4	22	
154	Explaining different experimental hole mobilities: influence of polymorphism on dynamic disorder in pentacene. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9665-9670	7.1	12	
153	Singlet fission molecules among known compounds: finding a few needles in a haystack. <i>Energy and Environmental Science</i> , 2019 , 12, 2412-2416	35.4	49	
152	Concurrent Optimization of Organic Donor Acceptor Pairs through Machine Learning. <i>Advanced Energy Materials</i> , 2019 , 9, 1902463	21.8	35	
151	Spectroscopic signatures of quantum effects: general discussion. Faraday Discussions, 2019, 221, 322-34	49 .6	2	
150	Quantum coherence in complex environments: general discussion. Faraday Discussions, 2019, 221, 168-	29.6	3	
149	Practical Computation of the Charge Mobility in Molecular Semiconductors Using Transient Localization Theory. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 6989-6997	3.8	27	
148	Strong optical response and light emission from a monolayer molecular crystal. <i>Nature Communications</i> , 2019 , 10, 5589	17.4	36	
147	Developing Consistent Molecular Dynamics Force Fields for Biological Chromophores via Force Matching. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 428-438	3.4	14	
146	Combining electronic and structural features in machine learning models to predict organic solar cells properties. <i>Materials Horizons</i> , 2019 , 6, 343-349	14.4	79	
145	On the arrangement of chromophores in light harvesting complexes: chance versus design. <i>Faraday Discussions</i> , 2019 , 221, 133-149	3.6	2	
144	Rapid Evaluation of Dynamic Electronic Disorder in Molecular Semiconductors. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 18336-18345	3.8	26	
143	Quantifying the Bubtle InterplayIbetween Intermolecular and MoleculeBubstrate Interactions in Molecular Assembly on Surfaces. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 17954-17962	3.8	9	
142	Nonlocal Electron-Phonon Coupling in Prototypical Molecular Semiconductors from First Principles. Journal of Chemical Theory and Computation, 2018, 14, 3752-3762	6.4	25	

141	How fine-tuned for energy transfer is the environmental noise produced by proteins around biological chromophores?. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 17279-17288	3.6	6
140	Sequencing conjugated polymers by eye. <i>Science Advances</i> , 2018 , 4, eaas9543	14.3	26
139	Systematic Study of the Effect of Auxiliary Acceptors in DA? Sensitizers Used on Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 23890-23898	3.8	13
138	Toward Predicting Efficiency of Organic Solar Cells via Machine Learning and Improved Descriptors. <i>Advanced Energy Materials</i> , 2018 , 8, 1801032	21.8	95
137	Trends in the electronic and geometric structure of non-fullerene based acceptors for organic solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 395-401	35.4	77
136	Effective Polarization in Pairwise Potentials at the Graphene-Electrolyte Interface. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 703-708	6.4	43
135	How Many Parameters Actually Affect the Mobility of Conjugated Polymers?. <i>Physical Review Letters</i> , 2017 , 118, 086601	7.4	38
134	Structure-Dynamics Relation in Physically-Plausible Multi-Chromophore Systems. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 2328-2333	6.4	11
133	Negative Isotope Effect on Field-Effect Hole Transport in Fully Substituted 13C-Rubrene. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700018	6.4	26
132	Vibronic enhancement of excitation energy transport: Interplay between local and non-local exciton-phonon interactions. <i>Journal of Chemical Physics</i> , 2017 , 146, 075101	3.9	24
131	Chromophore-Dependent Intramolecular Exciton-Vibrational Coupling in the FMO Complex: Quantification and Importance for Exciton Dynamics. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 10026-1	1 86 35	17
130	Excitonic Coupling Modulated by Mechanical Stimuli. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4326	∕4 332	6
129	Effect of Infrared Pulse Excitation on the Bound Charge-Transfer State of Photovoltaic Interfaces. Journal of Physical Chemistry Letters, 2017 , 8, 4872-4877	6.4	10
128	A map of high-mobility molecular semiconductors. <i>Nature Materials</i> , 2017 , 16, 998-1002	27	135
127	Importance and Nature of Short-Range Excitonic Interactions in Light Harvesting Complexes and Organic Semiconductors. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 3754-3763	6.4	19
126	A computational study of the competing reaction mechanisms of the photo-catalytic reduction of CO on anatase(101). <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 25010-25021	3.6	12
125	Charge transport perpendicular to the high mobility plane in organic crystals: Bandlike temperature dependence maintained despite hundredfold anisotropy. <i>Physical Review B</i> , 2016 , 93,	3.3	28
124	Does the Donor-EAcceptor Character of Dyes Improve the Efficiency of Dye-Sensitized Solar Cells?. Journal of Physical Chemistry Letters, 2016 , 7, 2989-93	6.4	9

123	Very Large Econjugation Despite Strong Nonplanarity: A Path for Designing New Semiconducting Polymers. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 4689-4694	6.4	27
122	Reducing dynamic disorder in small-molecule organic semiconductors by suppressing large-amplitude thermal motions. <i>Nature Communications</i> , 2016 , 7, 10736	17.4	120
121	Regimes of Exciton Transport in Molecular Crystals in the Presence of Dynamic Disorder. <i>Advanced Functional Materials</i> , 2016 , 26, 2316-2325	15.6	53
120	Continuum and atomistic description of excess electrons in TiO2. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 074004	1.8	4
119	Quantum dynamics of a vibronically coupled linear chain using a surrogate Hamiltonian approach. Journal of Chemical Physics, 2016 , 144, 214106	3.9	6
118	Exciton Dynamics in Phthalocyanine Molecular Crystals. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 7987	-3.896	23
117	Unexpected Like-Charge Self-Assembly of a Biguanide-Based Antimicrobial Polyelectrolyte. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3730-3735	6.4	9
116	Dynamics of the excitonic coupling in organic crystals. <i>Physical Review Letters</i> , 2015 , 114, 026402	7.4	87
115	Charge Dynamics in Organic Photovoltaic Materials: Interplay between Quantum Diffusion and Quantum Relaxation. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 14989-14998	3.8	23
114	Excitonic couplings between molecular crystal pairs by a multistate approximation. <i>Journal of Chemical Physics</i> , 2015 , 142, 164107	3.9	18
113	Developing accurate molecular mechanics force fields for conjugated molecular systems. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 25123-32	3.6	17
112	A very general rate expression for charge hopping in semiconducting polymers. <i>Journal of Chemical Physics</i> , 2015 , 142, 184105	3.9	24
111	Molecular Wires: Nanoscale Electrical Investigation of Layer-by-Layer Grown Molecular Wires (Adv. Mater. 11/2014). <i>Advanced Materials</i> , 2014 , 26, 1792-1792	24	
110	Nanoscale electrical investigation of layer-by-layer grown molecular wires. <i>Advanced Materials</i> , 2014 , 26, 1688-93	24	31
109	Exploiting quantum interference in dye sensitized solar cells. ACS Nano, 2014, 8, 409-18	16.7	31
108	An expression for the bridge-mediated electron transfer rate in dye-sensitized solar cells. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014 , 372, 2013001	₹	3
107	Theory of charge hopping along a disordered polymer chain. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 9997-10007	3.6	48
106	Charge Diffusion in Semiconducting Polymers: Analytical Relation between Polymer Rigidity and Time Scales for Intrachain and Interchain Hopping. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2637-4	16.4	40

105	Direct optical generation of long-range charge-transfer states in organic photovoltaics. <i>Advanced Materials</i> , 2014 , 26, 6163-7	24	49
104	Predicting with confidence the efficiency of new dyes in dye sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19106-10	3.6	19
103	Electronic Excited States in Amorphous MEH-PPV Polymers from Large-Scale First Principles Calculations. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 1272-82	6.4	27
102	Morphology and Charge Transport in P3HT: A Theorist Perspective. <i>Advances in Polymer Science</i> , 2014 , 139-180	1.3	51
101	Singlet fission in linear chains of molecules. <i>Journal of Chemical Physics</i> , 2014 , 141, 204703	3.9	13
100	Narrower bands with better charge transport: the counterintuitive behavior of semiconducting copolymers. <i>Advanced Materials</i> , 2014 , 26, 7627-31	24	24
99	Modulating the Exciton Dissociation Rate by up to More than Two Orders of Magnitude by Controlling the Alignment of LUMO + 1 in Organic Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 27272-27280	3.8	29
98	Understanding the Microscopic Origin of the Very High Charge Mobility in PBTTT: Tolerance of Thermal Disorder. <i>Advanced Functional Materials</i> , 2014 , 24, 925-933	15.6	54
97	Relation between structure and electronic properties of amorphous MEH-PPV polymers. <i>Journal of the American Chemical Society</i> , 2013 , 135, 11247-56	16.4	56
96	Measurement of molecular motion in organic semiconductors by thermal diffuse electron scattering. <i>Nature Materials</i> , 2013 , 12, 1045-9	27	75
95	How quasi-free holes and electrons are generated in organic photovoltaic interfaces. <i>Faraday Discussions</i> , 2013 , 163, 377-92; discussion 393-432	3.6	53
94	Using Orbital Symmetry to Minimize Charge Recombination in Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2013 , 125, 1007-1009	3.6	1
93	Using orbital symmetry to minimize charge recombination in dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 973-5	16.4	36
92	What makes fullerene acceptors special as electron acceptors in organic solar cells and how to replace them. <i>Advanced Materials</i> , 2013 , 25, 1038-41	24	240
91	Theoretical evidence of multiple dye regeneration mechanisms in dye-sensitized solar cells. <i>Chemical Physics Letters</i> , 2013 , 570, 159-162	2.5	17
90	Charge Injection Rates in Hybrid Nanosilicon P olythiophene Bulk Heterojunction Solar Cells. Journal of Physical Chemistry C, 2013 , 117, 110-115	3.8	5
89	Theory of the Charge Recombination Reaction at the Semiconductor Adsorbate Interface in the Presence of Defects. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 24196-24205	3.8	14
88	Calculation of rates of exciton dissociation into hot charge-transfer states in model organic photovoltaic interfaces. <i>Physical Review B</i> , 2013 , 88,	3.3	33

(2011-2012)

87	How TiO2 crystallographic surfaces influence charge injection rates from a chemisorbed dye sensitiser. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 13392-401	3.6	48
86	Long-range exciton dissociation in organic solar cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 13498-502	11.5	138
85	Adsorption and electron injection of the N3 metal-organic dye on the TiO2 rutile (110) surface. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 16668-76	3.6	26
84	Theoretical study of charge recombination at the TiO2-electrolyte interface in dye sensitised solar cells. <i>Journal of Chemical Physics</i> , 2012 , 137, 22A508	3.9	18
83	Evaluating Charge Recombination Rate in Dye-Sensitized Solar Cells from Electronic Structure Calculations. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7638-7649	3.8	79
82	Effect of the Anchoring Group on Electron Injection: Theoretical Study of Phosphonated Dyes for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 2622-2629	3.8	82
81	What Is the Best Anchoring Group for a Dye in a Dye-Sensitized Solar Cell?. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 1531-5	6.4	138
80	A predictive theory of charge separation in organic photovoltaics interfaces 2012 ,		1
79	Chiral semiconductor phases: the optically pure D3[M(III)(S,S-EDDS)]2 (D=TTF, TSF) family. <i>Inorganic Chemistry</i> , 2011 , 50, 4039-46	5.1	6
78	Why Holes and Electrons Separate So Well in Polymer/Fullerene Photovoltaic Cells. <i>Journal of Physical Chemistry Letters</i> , 2011 , 2, 2737-2741	6.4	167
77	Dynamic disorder in molecular semiconductors: charge transport in two dimensions. <i>Journal of Chemical Physics</i> , 2011 , 134, 034702	3.9	80
76	Persistence time of charge carriers in defect states of molecular semiconductors. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 10241-8	3.6	20
75	Hall-effect measurements probing the degree of charge-carrier delocalization in solution-processed crystalline molecular semiconductors. <i>Physical Review Letters</i> , 2011 , 107, 066601	7.4	94
74	High-Throughput Computational Screening of Chromophores for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11781-11792	3.8	110
73	Theoretical studies of dye-sensitised solar cells: from electronic structure to elementary processes. <i>Energy and Environmental Science</i> , 2011 , 4, 4473	35.4	173
72	The speed limit for sequential charge hopping in molecular materials. <i>Organic Electronics</i> , 2011 , 12, 198	18 ₃ .1 ₅ 99′	1 45
71	Structural variability and dynamics of the P3HT/PCBM interface and its effects on the electronic structure and the charge-transfer rates in solar cells. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 214	6 1 -70	88
70	Charge transport in high mobility molecular semiconductors: classical models and new theories. <i>Chemical Society Reviews</i> , 2011 , 40, 2347-58	58.5	343

69	Absolute Rate of Charge Separation and Recombination in a Molecular Model of the P3HT/PCBM Interface. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 2406-2415	3.8	208
68	Relation between Microstructure and Charge Transport in Polymers of Different Regioregularity. Journal of Physical Chemistry C, 2011, 115, 19386-19393	3.8	77
67	Quantum dynamic localization in the Holstein Hamiltonian at finite temperatures. <i>Physical Review B</i> , 2010 , 82,	3.3	11
66	Electronic Structure of TiO2 Surfaces and Effect of Molecular Adsorbates Using Different DFT Implementations. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22659-22670	3.8	112
65	Charge Transport in Self-Assembled Semiconducting Organic Layers: Role of Dynamic and Static Disorder. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 10592-10597	3.8	40
64	Agent-based modeling for the 2D molecular self-organization of realistic molecules. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 10151-9	3.4	10
63	Modeling the Self-Assembly of Benzenedicarboxylic Acids Using Monte Carlo and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 4376-4388	3.8	46
62	Hexagonal lattice model of the patterns formed by hydrogen-bonded molecules on the surface. Journal of Physical Chemistry B, 2010 , 114, 1849-58	3.4	23
61	Evaluation of the External Reorganization Energy of Polyacenes. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 941-946	6.4	247
60	Charge transport in organic crystals: role of disorder and topological connectivity. <i>Journal of the American Chemical Society</i> , 2010 , 132, 11702-8	16.4	150
59	Theoretical Study of the Organic Photovoltaic Electron Acceptor PCBM: Morphology, Electronic Structure, and Charge Localization. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 20479-20488	3.8	163
58	A method to rapidly predict the charge injection rate in dye sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 4625-34	3.6	59
57	Organic semiconductors: impact of disorder at different timescales. <i>ChemPhysChem</i> , 2010 , 11, 2067-74	3.2	72
56	Determination of kinetic parameters of enantiomerization of benzothiadiazines by DCXplorer. <i>Chirality</i> , 2010 , 22, 789-97	2.1	11
55	Probing local electric field and conformational switching in single-molecule break junctions. <i>Physical Review B</i> , 2009 , 79,	3.3	14
54	Transition from dynamic to static disorder in one-dimensional organic semiconductors. <i>Journal of Chemical Physics</i> , 2009 , 131, 014703	3.9	36
53	Effect of the intermolecular thermal motions on the tail of the electronic density of states in polyacene crystals. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 95, 147-152	2.6	12
52	An ad hoc tight binding method to study the electronic structure of semiconducting polymers. <i>Chemical Physics Letters</i> , 2009 , 480, 210-214	2.5	29

(2006-2009)

51	Computational study of the structure and charge-transfer parameters in low-molecular-mass P3HT. Journal of Physical Chemistry B, 2009 , 113, 9393-401	3.4	93
50	An artificial intelligence approach for modeling molecular self-assembly: agent-based simulations of rigid molecules. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 9877-85	3.4	9
49	A realistic description of the charge carrier wave function in microcrystalline polymer semiconductors. <i>Journal of the American Chemical Society</i> , 2009 , 131, 11179-86	16.4	63
48	Packing patterns of silica nanoparticles on surfaces of armored polystyrene latex particles. <i>Langmuir</i> , 2009 , 25, 12399-403	4	41
47	Charge transport in semiconductors with multiscale conformational dynamics. <i>Physical Review Letters</i> , 2009 , 102, 116602	7.4	106
46	Theories of the Charge Transport Mechanism in Ordered Organic Semiconductors. <i>Advances in Polymer Science</i> , 2009 , 213-258	1.3	5
45	Molecular structure and phase behaviour of hairy-rod polymers. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 2105-12	3.6	22
44	Modelling charge transport in organic semiconductors: from quantum dynamics to soft matter. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 5941-52	3.6	122
43	On the mechanism of charge transport in pentacene. <i>Journal of Chemical Physics</i> , 2008 , 129, 044704	3.9	43
42	Nuclear coupling and polarization in molecular transport junctions: beyond tunneling to function. <i>Science</i> , 2008 , 319, 1056-60	33.3	256
41	Inelastic electron tunnelling in saturated molecules with different functional groups: correlations and symmetry considerations from a computational study. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 374111	1.8	5
40	Self-assembly of sparsely distributed molecules: An efficient cluster algorithm. <i>Chemical Physics Letters</i> , 2008 , 458, 210-213	2.5	25
39	Inelastic insights for molecular tunneling pathways: bypassing the terminal groups. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 2421-7	3.6	31
38	Single Molecule Conductance of Linear Dithioalkanes in the Liquid Phase: Apparently Activated Transport Due to Conformational Flexibility. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 14567-14573	3.8	35
37	Inelastic electron tunneling spectroscopy of alkane monolayers with dissimilar attachment chemistry to gold. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15303-10	16.4	24
36	Prediction of the Absolute Charge Mobility of Molecular Semiconductors: the Case of Rubrene. <i>Advanced Materials</i> , 2007 , 19, 2000-2004	24	209
35	Tracing electronic pathways in molecules by using inelastic tunneling spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 14255-9	11.5	88
34	Propensity rules for inelastic electron tunneling spectroscopy of single-molecule transport junctions. <i>Journal of Chemical Physics</i> , 2006 , 125, 214709	3.9	62

33	Dynamics of the intermolecular transfer integral in crystalline organic semiconductors. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 4065-70	2.8	312
32	Molecular transport junctions: Propensity rules for inelastic electron tunneling spectra. <i>Nano Letters</i> , 2006 , 6, 1784-8	11.5	105
31	Charge dynamics through pi-stacked arrays of conjugated molecules: effect of dynamic disorder in different transport/transfer regimes. <i>Molecular Simulation</i> , 2006 , 32, 707-716	2	21
30	Charge-transport regime of crystalline organic semiconductors: diffusion limited by thermal off-diagonal electronic disorder. <i>Physical Review Letters</i> , 2006 , 96, 086601	7.4	473
29	Molecular signatures in the transport properties of molecular wire junctions: what makes a junction "molecular"?. <i>Small</i> , 2006 , 2, 172-81	11	111
28	Effects of hydration on molecular junction transport. <i>Nature Materials</i> , 2006 , 5, 901-8	27	104
27	Synthesis and isomerization of N-Bza-heteroaryl-Eactams. <i>Tetrahedron</i> , 2006 , 62, 12064-12070	2.4	20
26	Band structure of the four pentacene polymorphs and effect on the hole mobility at low temperature. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 1849-56	3.4	152
25	Electronic Interactions and Thermal Disorder in Molecular Crystals Containing Cofacial Pentacene Units. <i>Chemistry of Materials</i> , 2005 , 17, 5024-5031	9.6	109
24	Modeling the inelastic electron tunneling spectra of molecular wire junctions. <i>Physical Review B</i> , 2005 , 72,	3.3	81
23	Self-assembly on multiple length scales: a Monte Carlo algorithm with data augmentation. <i>Journal of Chemical Physics</i> , 2005 , 122, 024102	3.9	11
22	An agent-based approach for modeling molecular self-organization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 255-60	11.5	65
21	On the Structure and Stability of Self-Assembled Zwitterionic Peptide Amphiphiles: A Theoretical Study. <i>Nano Letters</i> , 2004 , 4, 427-431	11.5	44
20	Dynamic nature of the intramolecular electronic coupling mediated by a solvent molecule: a computational study. <i>Journal of the American Chemical Society</i> , 2004 , 126, 2215-24	16.4	57
19	All-Atom Numerical Studies of Self-Assembly of Zwitterionic Peptide Amphiphiles. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15278-15284	3.4	41
18	Conformational Molecular Rectifiers. <i>Nano Letters</i> , 2004 , 4, 591-595	11.5	124
17	Modulating charge-transfer interactions in topologically different porphyrin-C60 dyads. <i>Chemistry - A European Journal</i> , 2003 , 9, 4968-79	4.8	102
16	Construction of electronic diabatic states within a molecular orbital scheme. <i>Journal of Chemical Physics</i> , 2003 , 118, 5356-5363	3.9	18

LIST OF PUBLICATIONS

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