

Angus Gray-Weale

List of Publications by Year in descending order

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64
papers

4,835
citations

159358

30
h-index

102304

66
g-index

70
all docs

70
docs citations

70
times ranked

7047
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards predicting the power conversion efficiencies of organic solar cells from donor and acceptor molecule structures. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3276-3287.	2.7	17
2	Molecular Origin of Donor- and Acceptor-Rich Domain Formation in Bulk-Heterojunction Solar Cells with an Enhanced Charge Transport Efficiency. <i>Journal of Physical Chemistry C</i> , 2017, 121, 5864-5870.	1.5	18
3	Numerical analysis of a hysteresis model in perovskite solar cells. <i>Computational Materials Science</i> , 2017, 126, 22-28.	1.4	13
4	Hydrodynamic Drag on Diffusing Nanoparticles for Size Determination. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21888-21896.	1.5	7
5	The coalescence of polystyrene in correlated binary solvents. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 948-955.	2.4	3
6	A numerical model for charge transport and energy conversion of perovskite solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 4476-4486.	1.3	56
7	Pair correlations that link the hydrophobic and Hofmeister effects. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 14949-14959.	1.3	5
8	Liver glycogen in type 2 diabetic mice is randomly branched as enlarged aggregates with blunted glucose release. <i>Glycoconjugate Journal</i> , 2016, 33, 41-51.	1.4	15
9	From atomic structure to excess entropy: a neutron diffraction and density functional theory study of $\text{CaO} \cdot \text{Al}_2\text{O}_3 \cdot \text{SiO}_2$ melts. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 135102.	0.7	9
10	The biological function of an insect antifreeze protein simulated by molecular dynamics. <i>ELife</i> , 2015, 4, .	2.8	85
11	Photovoltaic performance and the energy landscape of $\text{CH}_3\text{NH}_3\text{PbI}_3$. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22604-22615.	1.3	35
12	Modeling of Fe-W phase diagram using first principles and phonons calculations. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2015, 50, 92-104.	0.7	32
13	Ion-to-Neutral Ratios and Thermal Proton Transfer in Matrix-Assisted Laser Desorption/Ionization. <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 1242-1251.	1.2	36
14	Comment to the Reply on: "Energetics and Kinetics of Thermal Ionization Models of MALDI" by Richard Knochenmuss. <i>J. Am. Soc. Mass Spectrom.</i> 25, 1521-1527 (2014). <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 2169-2170.	1.2	2
15	Comment on: "Energetics and Kinetics of Thermal Ionization Models of MALDI" by Richard Knochenmuss. <i>J. Am. Soc. Mass Spectrom.</i> 25, 1521-1527 (2014). <i>Journal of the American Society for Mass Spectrometry</i> , 2015, 26, 2162-2166.	1.2	7
16	Order and correlation contributions to the entropy of hydrophobic solvation. <i>Journal of Chemical Physics</i> , 2015, 142, 114117.	1.2	17
17	Theoretical investigation on two-dimensional non-traditional carbon materials employing three-membered ring and four-membered ring as building blocks. <i>Carbon</i> , 2015, 95, 1033-1038.	5.4	22
18	pH and the surface tension of water. <i>Journal of Colloid and Interface Science</i> , 2014, 422, 54-57.	5.0	89

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19	Solubility of Sodium in Sodium Chloride: A Density Functional Theory Molecular Dynamics Study. <i>Journal of the Electrochemical Society</i> , 2014, 161, E3042-E3048.	1.3	15
20	A Fast Deposition&Crystallization Procedure for Highly Efficient Lead Iodide Perovskite Thin&Film Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 9898-9903.	7.2	1,292
21	Gas-assisted preparation of lead iodide perovskite films consisting of a monolayer of single crystalline grains for high efficiency planar solar cells. <i>Nano Energy</i> , 2014, 10, 10-18.	8.2	504
22	Oil/Water Interface Charged by Hydroxide Ions and Deprotonated Fatty Acids: A Comment. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12941-12942.	7.2	40
23	Thermodynamic Limit of Exciton Fission Solar Cell Efficiency. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2749-2754.	2.1	95
24	The structure of cardiac glycogen in healthy mice. <i>International Journal of Biological Macromolecules</i> , 2012, 51, 887-891.	3.6	36
25	The Surface Relaxation of Water. <i>Journal of Physical Chemistry B</i> , 2012, 116, 8981-8988.	1.2	26
26	Microenvironment-switchable singlet oxygen generation by axially-coordinated hydrophilic ruthenium phthalocyanine dendrimers. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 3385-3393.	1.3	19
27	Molecular Structural Differences between Type-2-Diabetic and Healthy Glycogen. <i>Biomacromolecules</i> , 2011, 12, 1983-1986.	2.6	43
28	Sodium Fluoride at the Air/Water Interface. <i>Australian Journal of Chemistry</i> , 2011, 64, 1580.	0.5	2
29	Hyperbranched alternating block copolymers using thiol&yne chemistry: materials with tuneable properties. <i>Chemical Communications</i> , 2011, 47, 239-241.	2.2	100
30	Luminescent Hyperbranched Polymers: Combining Thiol-Yne Chemistry with Gold-Mediated C&H Bond Activation. <i>Organometallics</i> , 2011, 30, 1315-1318.	1.1	47
31	Modeling highly branched structures: Description of the solution structures of dendrimers, polyglycerol, and glycogen. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2011, 49, 1525-1538.	2.4	7
32	Describing the Structure of a Randomly Hyperbranched Polymer. <i>Macromolecular Theory and Simulations</i> , 2010, 19, 219-227.	0.6	17
33	The structure of randomly branched polymers synthesized by living radical methods. <i>Polymer Chemistry</i> , 2010, 1, 1067.	1.9	33
34	Ab Initio Study of Water Polarization in the Hydration Shell of Aqueous Hydroxide: Comparison between Polarizable and Nonpolarizable Water Models. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 2888-2895.	2.3	16
35	Reply to the &Comment on &An explanation for the charge on water's surface& by R. V&ícha, D. Horinek, R. Buchner, B. Winter and P. Jungwirth, <i>Phys. Chem. Chem. Phys.</i> , 2010, 12, DOI: 10.1039/c001492c. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14364.	1.3	9
36	A divergent synthesis of modular dendrimers via sequential C&C bond fragmentation thio-Michael addition. <i>Chemical Communications</i> , 2010, 46, 6789.	2.2	10

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37	Nature of $\hat{1}_\pm$ and $\hat{1}^2$ Particles in Glycogen Using Molecular Size Distributions. <i>Biomacromolecules</i> , 2010, 11, 1094-1100.	2.6	72
38	RAFT polymerization kinetics: How long are the cross-terminating oligomers?. <i>Journal of Polymer Science Part A</i> , 2009, 47, 3455-3466.	2.5	82
39	General description of the structure of branched polymers. <i>Journal of Polymer Science Part A</i> , 2009, 47, 3914-3930.	2.5	35
40	Comment on "Behaviour of hydroxide at the water/vapor interface" [Chem. Phys. Lett. 474 (2009) 241]. <i>Chemical Physics Letters</i> , 2009, 481, 22-24.	1.2	14
41	Correlations in the Structure and Dynamics of Ionic Liquids. <i>Australian Journal of Chemistry</i> , 2009, 62, 288.	0.5	9
42	Obtaining Kinetic Information from the Chain-Length Distribution of Polymers Produced by RAFT. <i>Journal of Physical Chemistry B</i> , 2009, 113, 7086-7094.	1.2	48
43	Comparative structural analyses of purified glycogen particles from rat liver, human skeletal muscle and commercial preparations. <i>International Journal of Biological Macromolecules</i> , 2009, 45, 478-482.	3.6	82
44	Searching for Stars: Selective Desulfurization and Fluorescence Spectroscopy as New Tools in the Search for Cross Termination Side-products in RAFT Polymerization. <i>Australian Journal of Chemistry</i> , 2009, 62, 1533.	0.5	19
45	Hyperbranched Polymers by Thiol-Yne Chemistry: From Small Molecules to Functional Polymers. <i>Journal of the American Chemical Society</i> , 2009, 131, 18075-18077.	6.6	280
46	Extracting Physically Useful Information from Multiple-Detection Size-Separation Data for Starch. <i>Biomacromolecules</i> , 2009, 10, 2708-2713.	2.6	13
47	An explanation for the charge on water's surface. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 10994.	1.3	145
48	RAFT Polymerization Kinetics: Combination of Apparently Conflicting Models. <i>Macromolecules</i> , 2008, 41, 6400-6412.	2.2	116
49	Statistical mechanical theory for steady state systems. VIII. General theory for a Brownian particle driven by a time- and space-varying force. <i>Journal of Chemical Physics</i> , 2008, 128, 114509.	1.2	7
50	Models for randomly hyperbranched polymers: Theory and simulation. <i>Journal of Chemical Physics</i> , 2008, 129, 054901.	1.2	29
51	Time correlations and the second entropy. <i>Journal of Chemical Physics</i> , 2007, 127, 044503.	1.2	2
52	Screening and strain in superionic conductors. <i>Faraday Discussions</i> , 2007, 134, 297-313.	1.6	2
53	Interpreting Size-Exclusion Data for Highly Branched Biopolymers by Reverse Monte Carlo Simulations. <i>Biomacromolecules</i> , 2007, 8, 455-463.	2.6	17
54	Toward a More General Solution to the Band-Broadening Problem in Size Separation of Polymers. <i>Macromolecules</i> , 2007, 40, 3477-3487.	2.2	33

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55	Nanoparticle Enhanced Conductivity in Organic Ionic Plastic Crystals: Space Charge versus Strain Induced Defect Mechanism. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11463-11468.	1.5	49
56	Theory of Multiple-Detection Size-Exclusion Chromatography of Complex Branched Polymers. <i>Macromolecular Theory and Simulations</i> , 2007, 16, 13-28.	0.6	93
57	Molecular weight distributions from size separation data for hyperbranched polymers. <i>Journal of Polymer Science Part A</i> , 2007, 45, 3112-3115.	2.5	24
58	Randomly Hyperbranched Polymers. <i>Physical Review Letters</i> , 2007, 98, 238301.	2.9	39
59	Role of Protein Flexibility in Ion Permeation: A Case Study in Gramicidin A. <i>Biophysical Journal</i> , 2006, 90, 2285-2296.	0.2	34
60	The Energy Landscape of a Fluorite-Structured Superionic Conductor. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6634-6642.	1.2	16
61	Dynamical Arrest in Superionic Crystals and Supercooled Liquids. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6624-6633.	1.2	22
62	Theoretical calculation of the structure of a polarizable-ionic fluid. <i>Molecular Physics</i> , 2003, 101, 1761-1779.	0.8	14
63	Induced-dipole contributions to the conductivity and dielectric response of molten ZnCl ₂ . <i>Journal of Chemical Physics</i> , 2000, 113, 6782-6787.	1.2	19
64	Transition-State Theory Model for the Diffusion Coefficients of Small Penetrants in Glassy Polymers. <i>Macromolecules</i> , 1997, 30, 7296-7306.	2.2	69