David R Reichman

List of Publications by Year in descending order

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134 papers 15,901 citations

54 h-index 125 g-index

135 all docs 135
docs citations

135 times ranked 18741 citing authors

#	Article	IF	Citations
1	Grains and grain boundaries in highly crystalline monolayer molybdenum disulphide. Nature Materials, 2013, 12, 554-561.	27.5	1,896
2	Exciton Binding Energy and Nonhydrogenic Rydberg Series in Monolayer <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mi>WS</mml:mi></mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mm< td=""><td>ml:7.8>2<</td><td>/mm1814 /mm1:mn></td></mm<></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:msub></mml:mrow></mml:math>	ml: 7.8 >2<	/mm1814 /mm1:mn>
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4	Visualizing Individual Nitrogen Dopants in Monolayer Graphene. Science, 2011, 333, 999-1003.	12.6	774
5	Theory of neutral and charged excitons in monolayer transition metal dichalcogenides. Physical Review B, 2013, 88, .	3.2	737
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7	Connecting Dopant Bond Type with Electronic Structure in N-Doped Graphene. Nano Letters, 2012, 12, 4025-4031.	9.1	471
8	Soft colloids make strong glasses. Nature, 2009, 462, 83-86.	27.8	464
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19	Dynamic Basis for One-Dimensional DNA Scanning by the Mismatch Repair Complex Msh2-Msh6. Molecular Cell, 2007, 28, 359-370.	9.7	215
20	Microscopic theory of singlet exciton fission. I. General formulation. Journal of Chemical Physics, 2013, 138, 114102.	3.0	210
21	Local Atomic and Electronic Structure of Boron Chemical Doping in Monolayer Graphene. Nano Letters, 2013, 13, 4659-4665.	9.1	192
22	Energy Transfer from Quantum Dots to Graphene and MoS ₂ : The Role of Absorption and Screening in Two-Dimensional Materials. Nano Letters, 2016, 16, 2328-2333.	9.1	179
23	Adaptive nudged elastic band approach for transition state calculation. Journal of Chemical Physics, 2002, 117, 4651-4658.	3.0	148
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25	Taming the Dynamical Sign Problem in Real-Time Evolution of Quantum Many-Body Problems. Physical Review Letters, 2015, 115, 266802.	7.8	138
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30	The promoter-search mechanism of Escherichia coli RNA polymerase is dominated by three-dimensional diffusion. Nature Structural and Molecular Biology, 2013, 20, 174-181.	8.2	110
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34	A Feynman path centroid dynamics approach for the computation of time correlation functions involving nonlinear operators. Journal of Chemical Physics, 2000, 113, 919-929.	3.0	91
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36	The calculation of transport properties in quantum liquids using the maximum entropy numerical analytic continuation method: Application to liquid para-hydrogen. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1129-1133.	7.1	89

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43	Vibronic exciton theory of singlet fission. I. Linear absorption and the anatomy of the correlated triplet pair state. Journal of Chemical Physics, 2017, 146, 174703.	3.0	77
44	The Significance of Polarons and Dynamic Disorder in Halide Perovskites. ACS Energy Letters, 2021, 6, 2162-2173.	17.4	74
45	Cooperativity beyond Caging: Generalized Mode-Coupling Theory. Physical Review Letters, 2006, 97, 095702.	7.8	72
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47	Transport in quasiperiodic interacting systems: From superdiffusion to subdiffusion. Europhysics Letters, 2017, 119, 37003.	2.0	70
48	Spatial dimension and the dynamics of supercooled liquids. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 15171-15175.	7.1	68
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50	Vibronic exciton theory of singlet fission. III. How vibronic coupling and thermodynamics promote rapid triplet generation in pentacene crystals. Journal of Chemical Physics, 2018, 148, 244701.	3.0	67
51	Microscopic Dynamics of Supercooled Liquids from First Principles. Physical Review Letters, 2015, 115, 205701.	7.8	62
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53	Self-Consistent Mode-Coupling Theory for Self-Diffusion in Quantum Liquids. Physical Review Letters, 2001, 87, 265702.	7.8	61
54	A self-consistent mode-coupling theory for dynamical correlations in quantum liquids: Application to liquidpara-hydrogen. Journal of Chemical Physics, 2002, 116, 6279-6285.	3.0	60

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56	Single-crystal-to-single-crystal intercalation of a low-bandgap superatomic crystal. Nature Chemistry, 2017, 9, 1170-1174.	13.6	56
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58	Vibronic exciton theory of singlet fission. II. Two-dimensional spectroscopic detection of the correlated triplet pair state. Journal of Chemical Physics, 2017, 146, 174704.	3.0	53
59	A self-consistent mode-coupling theory for dynamical correlations in quantum liquids: Rigorous formulation. Journal of Chemical Physics, 2002, 116, 6271-6278.	3.0	52
60	Controlling Chain Conformation in Conjugated Polymers Using Defect Inclusion Strategies. Journal of the American Chemical Society, 2011, 133, 10155-10160.	13.7	52
61	Slow dynamics in a two-dimensional Anderson-Hubbard model. Europhysics Letters, 2016, 113, 46001.	2.0	52
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73	Extending the applicability of Redfield theories into highly non-Markovian regimes. Journal of Chemical Physics, 2015, 143, 194108.	3.0	41
74	Reference system master equation approaches to condensed phase charge transfer processes. I. General formulation. Journal of Chemical Physics, 2001, 115, 9848-9861.	3.0	39
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78	QUANTUM MODE-COUPLING THEORY: Formulation and Applications to Normal and Supercooled Quantum Liquids. Annual Review of Physical Chemistry, 2005, 56, 157-185.	10.8	33
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80	Equilibrium ultrastable glasses produced by random pinning. Journal of Chemical Physics, 2014, 141, 224503.	3.0	31
81	Cumulant expansions and the spin-boson problem. Physical Review E, 1997, 55, 2328-2337.	2.1	30
82	Coherent quantum dynamics in donor–bridge–acceptor systems: beyond the hopping and super-exchange mechanisms. New Journal of Physics, 2013, 15, 105020.	2.9	30
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84	On the nonperturbative theory of pure dephasing in condensed phases at low temperatures. Journal of Chemical Physics, 1996, 105, 10500-10506.	3.0	28
85	Numerical Investigation of the Entropy Crisis in Model Glass Formers. Journal of Physical Chemistry B, 2004, 108, 6832-6837.	2.6	28
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87	Analytic continuation for quantum nonadiabatic rate constants. Journal of Chemical Physics, 2003, 118, 457-460.	3.0	27
88	Numerical Investigation of Glassy Dynamics in Low-Density Systems. Physical Review Letters, 2008, 100, 195701.	7.8	27
89	A Short-Time Quantum Mechanical Expansion Approach to Vibrational Relaxationâ€. Journal of Physical Chemistry B, 2001, 105, 6550-6555.	2.6	26
90	Molecular hydrodynamic theory of nonresonant Raman spectra in liquids: Fifth-order spectra. Journal of Chemical Physics, 2002, 116, 1987-1994.	3.0	24

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92	Nonequilibrium transport in quantum impurity models: exact path integral simulations. Physical Chemistry Chemical Physics, 2011, 13, 14378.	2.8	24
93	Chromophore-Controlled Self-Assembly of Highly Ordered Polymer Nanostructures. Journal of Physical Chemistry Letters, 2013, 4, 2520-2524.	4.6	22
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99	Molecular hydrodynamic theory of nonresonant Raman spectra in liquids: Third-order spectra. Journal of Chemical Physics, 2002, 116, 1979-1986.	3.0	16
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111	Semiclassical representations of electronic structure and dynamics. Journal of Chemical Physics, 2004, 120, 579-589.	3.0	10
112	Relationship between Mechanical and Dynamical Properties of Glass Forming Liquidsâ€. Journal of Physical Chemistry B, 2004, 108, 19703-19710.	2.6	10
113	Spectral Functions from Auxiliary-Field Quantum Monte Carlo without Analytic Continuation: The Extended Koopmans' Theorem Approach. Journal of Chemical Theory and Computation, 2021, 17, 3372-3387.	5.3	10
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115	Dynamic Length Scales in Glass-Forming Liquids: An Inhomogeneous Molecular Dynamics Simulation Approach. Journal of Physical Chemistry B, 2013, 117, 13259-13267.	2.6	7
116	Time evolution of ML-MCTDH wavefunctions. I. Gauge conditions, basis functions, and singularities. Journal of Chemical Physics, 2021, 155, 174108.	3.0	7
117	A Localized-Orbital Energy Evaluation for Auxiliary-Field Quantum Monte Carlo. Journal of Chemical Theory and Computation, 2022, 18, 3447-3459.	5.3	7
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