

Yuri A Berlin

List of Publications by Year in descending order

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56
papers

3,324
citations

236925

25
h-index

155660

55
g-index

56
all docs

56
docs citations

56
times ranked

2323
citing authors

#	ARTICLE	IF	CITATIONS
1	Absolute Rates of Hole Transfer in DNA. <i>Journal of the American Chemical Society</i> , 2005, 127, 14894-14903.	13.7	325
2	Charge Hopping in DNA. <i>Journal of the American Chemical Society</i> , 2001, 123, 260-268.	13.7	313
3	Elementary steps for charge transport in DNA: thermal activation vs. tunneling. <i>Chemical Physics</i> , 2002, 275, 61-74.	1.9	221
4	Mechanism of Charge Migration through DNA: A Molecular Wire Behavior, Single-Step Tunneling or Hopping?. <i>Journal of the American Chemical Society</i> , 2000, 122, 10903-10909.	13.7	211
5	Charge Hopping in Molecular Wires as a Sequence of Electron-Transfer Reactions. <i>Journal of Physical Chemistry A</i> , 2003, 107, 3970-3980.	2.5	204
6	Intramolecular Charge Transport along Isolated Chains of Conjugated Polymers: Effect of Torsional Disorder and Polymerization Defects. <i>Journal of Physical Chemistry B</i> , 2002, 106, 7791-7795.	2.6	186
7	On the Long-Range Charge Transfer in DNA. <i>Journal of Physical Chemistry A</i> , 2000, 104, 443-445.	2.5	162
8	Effect of Structural Dynamics on Charge Transfer in DNA Hairpins. <i>Journal of the American Chemical Society</i> , 2008, 130, 5157-5166.	13.7	148
9	Charge Transfer in Donor-Bridge-Acceptor Systems: Static Disorder, Dynamic Fluctuations, and Complex Kinetics. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10988-11000.	3.1	114
10	Hole Mobility in DNA: Effects of Static and Dynamic Structural Fluctuations. <i>ChemPhysChem</i> , 2002, 3, 536.	2.1	112
11	Between Superexchange and Hopping: An Intermediate Charge-Transfer Mechanism in Poly(A)-Poly(T) DNA Hairpins. <i>Journal of the American Chemical Society</i> , 2013, 135, 3953-3963.	13.7	109
12	DNA as a molecular wire. <i>Superlattices and Microstructures</i> , 2000, 28, 241-252.	3.1	108
13	DNA Electron Transfer Processes: Some Theoretical Notions. <i>Topics in Current Chemistry</i> , 2004, , 1-36.	4.0	93
14	Mechanism of Charge Transport along Columnar Stacks of a Triphenylene Dimer. <i>Journal of Physical Chemistry B</i> , 1998, 102, 9625-9634.	2.6	77
15	Solvent Reorganization Energy of Charge Transfer in DNA Hairpins. <i>Journal of Physical Chemistry B</i> , 2003, 107, 14509-14520.	2.6	75
16	Conformationally Gated Rate Processes in Biological Macromolecules. <i>Journal of Physical Chemistry A</i> , 2001, 105, 5666-5678.	2.5	69
17	Intra-molecular electron transfer and electric conductance via sequential hopping: Unified theoretical description. <i>Radiation Physics and Chemistry</i> , 2005, 74, 124-131.	2.8	66
18	Electronic Excitation Energy Transfer between Nucleobases of Natural DNA. <i>Journal of the American Chemical Society</i> , 2012, 134, 11366-11368.	13.7	66

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19	Exponential Distance Dependence of Photoinitiated Stepwise Electron Transfer in Donor-“Bridge”-Acceptor Molecules: Implications for Wirelike Behavior. <i>Journal of the American Chemical Society</i> , 2012, 134, 4581-4588.	13.7	56
20	Deep-hole transfer leads to ultrafast charge migration in DNA hairpins. <i>Nature Chemistry</i> , 2016, 8, 1015-1021.	13.6	56
21	Sequence-dependent charge transfer in donor-DNA-acceptor systems: A theoretical study. <i>International Journal of Quantum Chemistry</i> , 1999, 75, 1009-1016.	2.0	55
22	Charge Transport across DNA-Based Three-Way Junctions. <i>Journal of the American Chemical Society</i> , 2015, 137, 5113-5122.	13.7	39
23	Effect of GC Base Pairs on Charge Transfer through DNA Hairpins: The Importance of Electrostatic Interactions. <i>Journal of the American Chemical Society</i> , 2009, 131, 14204-14205.	13.7	36
24	Spectroscopy of proteins at low temperature. Part I: Experiments with molecular ensembles. <i>Physics of Life Reviews</i> , 2006, 3, 262-292.	2.8	35
25	Diffusion in one-dimensional disordered systems. <i>Chemical Physics Letters</i> , 1996, 257, 665-673.	2.6	28
26	Hierarchically constrained dynamics of the configurational coordinate for rate processes in complex systems. <i>Chemical Physics Letters</i> , 1997, 267, 234-243.	2.6	25
27	Semiclassical Theory for Tunneling of Electrons Interacting with Media. <i>Journal of Physical Chemistry A</i> , 2001, 105, 2652-2659.	2.5	24
28	The Hund paradox and stabilization of molecular chiral states. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1996, 37, 333-339.	1.0	23
29	Conformationally Gated Charge Transfer in DNA Three-Way Junctions. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2434-2438.	4.6	23
30	Effect of Electrostatic Interactions and Dynamic Disorder on the Distance Dependence of Charge Transfer in Donor-“Bridge”-Acceptor Systems. <i>Journal of Physical Chemistry B</i> , 2010, 114, 14564-14571.	2.6	22
31	Impact of a single base pair substitution on the charge transfer rate along short DNA hairpins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14867-14871.	7.1	22
32	Diffusion in one-dimensional disordered systems: analytical study verified by Monte Carlo simulations. <i>Chemical Physics Letters</i> , 1997, 265, 460-466.	2.6	20
33	Physics of Proteins at Low Temperature. <i>Journal of Low Temperature Physics</i> , 2004, 137, 289-317.	1.4	20
34	DNA Base Pair Stacks with High Electric Conductance: A Systematic Structural Search. <i>ACS Nano</i> , 2012, 6, 8216-8225.	14.6	20
35	Phenomenological model for reaction kinetics coupled to a relaxing environment. <i>Chemical Physics</i> , 1997, 220, 25-41.	1.9	18
36	Quantum motion of particles along one-dimensional pathways with static and dynamic energy disorder. <i>Chemical Physics</i> , 1998, 238, 97-107.	1.9	18

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37	Irreversible random transition theory as applied to rate processes in condensed media: Transient effects of constrained configuration rearrangements in complex systems. <i>Chemical Physics</i> , 1996, 212, 29-39.	1.9	16
38	Thermally activated diffusion along one-dimensional chains with energetic disorder: analysis of computer simulation data. <i>Chemical Physics Letters</i> , 1997, 276, 361-370.	2.6	16
39	Charge Migration in Organic Materials: Can Propagating Charges Affect the Key Physical Quantities Controlling Their Motion?. <i>Israel Journal of Chemistry</i> , 2012, 52, 452-460.	2.3	14
40	Deviation from the Einstein relation: mobility of unrelaxed carriers. <i>Chemical Physics Letters</i> , 1999, 305, 123-131.	2.6	11
41	Dispersive Transport and Reactivity of Charge Carriers in Disordered Solids. <i>Molecular Crystals and Liquid Crystals</i> , 1993, 228, 93-98.	0.3	10
42	Randomly affected monomolecular reactions. <i>Journal of Chemical Physics</i> , 1994, 100, 3163-3168.	3.0	8
43	Energy relaxation during thermally activated diffusion along one-dimensional chains with site disorder. <i>Chemical Physics Letters</i> , 1998, 291, 85-93.	2.6	8
44	Correlated fluctuations in multielement systems: The stochastic-branching-process model. <i>Physical Review A</i> , 1992, 45, 3547-3552.	2.5	6
45	On inherited fertility in biological systems: a model of correlated fluctuations in the stochastic branching process. <i>BioSystems</i> , 1992, 26, 185-192.	2.0	6
46	A possible description of the substates hierarchy in glass-like systems. <i>Chemical Physics Letters</i> , 1992, 189, 316-320.	2.6	6
47	Probing Molecular Transport Properties using the Superconducting Proximity Effect. <i>Small Methods</i> , 2017, 1, 1600034.	8.6	4
48	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
49	Conduction of Metal-Thin Organic Film-Metal Junctions at Low Bias. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7557-7563.	3.1	3
50	Variable-Range Charge Hopping in DNA. <i>Nanoscience and Technology</i> , 2007, , 45-61.	1.5	3
51	The elementary step of charge carrier transport in polymeric systems studied by the irreversible stochastic transition theory. <i>Synthetic Metals</i> , 1994, 64, 171-175.	3.9	2
52	Can Charge Recombination in DNA Hairpins Be Controlled by Counterions?. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20503-20509.	3.1	2
53	Effects of various halogen anions and cations of alkali metals on energetics of excess charge recombination in stilbene donor-acceptor capped DNA hairpins. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16028.	2.8	2
54	Sequence-dependent charge transfer in donor-DNA-acceptor systems: A theoretical study. , 1999, 75, 1009.		2

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55	Randomly affected kinetics applied to reactions of chemically active species in irradiated condensed media. Radiation Physics and Chemistry, 1996, 47, 377-379.	2.8	1
56	Semiclassical Theory for Dissipative Tunneling Through a Molecular Wire. Annals of the New York Academy of Sciences, 2006, 960, 240-247.	3.8	1