

Ilya Rips

List of Publications by Year in descending order

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26
papers

1,552
citations

516710

16
h-index

610901

24
g-index

27
all docs

27
docs citations

27
times ranked

595
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic solvent effects on outer-sphere electron transfer. <i>Journal of Chemical Physics</i> , 1987, 87, 2090-2104.	3.0	484
2	Dynamics of ionic solvation. <i>Journal of Chemical Physics</i> , 1988, 88, 3246-3252.	3.0	186
3	Outer sphere electron transfer in polar solvents. Activationless and inverted regimes. <i>Journal of Chemical Physics</i> , 1987, 87, 6513-6519.	3.0	154
4	Solvation dynamics in polar liquids. <i>Journal of Chemical Physics</i> , 1988, 89, 4288-4299.	3.0	142
5	Quantum Kramers model: Solution of the turnover problem. <i>Physical Review A</i> , 1990, 41, 5366-5382.	2.5	107
6	Activationless solvent-controlled electron transfer. <i>Journal of Chemical Physics</i> , 1988, 88, 818-822.	3.0	99
7	The effect of solvent relaxation dynamics on outer-sphere electron transfer. <i>Chemical Physics Letters</i> , 1987, 133, 411-414.	2.6	95
8	Ion solvation in clusters. <i>Journal of Chemical Physics</i> , 1992, 97, 536-546.	3.0	44
9	Cavitation model of electron solvation dynamics: Effect of energy dissipation. <i>Journal of Chemical Physics</i> , 1997, 106, 2702-2711.	3.0	40
10	Variational transition state theory for curve crossing processes: A uniform rate expression. <i>Journal of Chemical Physics</i> , 1995, 103, 7912-7926.	3.0	34
11	A numerical test of activated rate theories for cusped and smooth potentials. <i>Journal of Chemical Physics</i> , 1996, 104, 6547-6559.	3.0	22
12	Electron solvation dynamics in polar liquids. <i>Chemical Physics Letters</i> , 1995, 245, 79-84.	2.6	20
13	Electronic excitation transport in a substitutionally disordered medium. <i>Chemical Physics</i> , 1988, 128, 237-256.	1.9	19
14	Thermalization of photoelectrons in polar medium. <i>Journal of Chemical Physics</i> , 1991, 94, 4495-4508.	3.0	18
15	Tunneling effects on the escape of particles from an extremely underdamped potential well. <i>Physical Review B</i> , 1986, 34, 233-239.	3.2	17
16	Curve crossing problem with dissipation: Uniform rate expression in diabatic representation. <i>Journal of Chemical Physics</i> , 1996, 104, 9795-9807.	3.0	17
17	Equilibrium properties of the solvated electron in polar liquids: Finite solvent size effects. <i>Journal of Chemical Physics</i> , 1997, 107, 3924-3929.	3.0	12
18	Electron transfer in a microscopically inhomogeneous medium. <i>International Journal of Quantum Chemistry</i> , 1987, 32, 313-319.	2.0	11

#	ARTICLE	IF	CITATIONS
19	Dissipative curve crossing problem. I. High-barrier crossing. Journal of Chemical Physics, 2004, 121, 5356-5371.	3.0	9
20	Quantum Kramers model: Well dynamics beyond the linear-response theory. Physical Review A, 1990, 42, 4427-4439.	2.5	6
21	Photoinjection into electrolyte solutions. The role of thermalization. Journal of Chemical Physics, 1991, 95, 2975-2979.	3.0	6
22	Frequency Factor for the Outer-Sphere Electron Transfer. Bridging Between the Diabatic, Adiabatic and Solvent-Controlled Limits. Jerusalem Symposia on Quantum Chemistry and Biochemistry, 1990, , 293-299.	0.2	5
23	Memory effects on energy transport in substitutionally disordered molecular crystals. Chemical Physics, 1985, 99, 207-221.	1.9	4
24	Marginal dimensionalities for long-range energy transfer. International Reviews in Physical Chemistry, 1986, 5, 169-173.	2.3	1
25	Two aspects of the solvation dynamics. AIP Conference Proceedings, 1994, , .	0.4	0
26	Quantum Kramers model: Corrections to the linear response theory for continuous bath spectrum. Physical Review E, 2017, 95, 012119.	2.1	0