

D H Dunlap

List of Publications by Year in descending order

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19
papers

2,382
citations

687363

13
h-index

888059

17
g-index

19
all docs

19
docs citations

19
times ranked

1584
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamic localization of a charged particle moving under the influence of an electric field. Physical Review B, 1986, 34, 3625-3633.	3.2	773
2	Essential Role of Correlations in Governing Charge Transport in Disordered Organic Materials. Physical Review Letters, 1998, 81, 4472-4475.	7.8	590
3	Charge-Dipole Model for the Universal Field Dependence of Mobilities in Molecularly Doped Polymers. Physical Review Letters, 1996, 77, 542-545.	7.8	435
4	Unified theory of the mobilities of photoinjected electrons in naphthalene. Physical Review Letters, 1989, 62, 1165-1168.	7.8	136
5	Nature of Charge Carriers in Disordered Molecular Solids: Are Polarons Compatible with Observations?. Physical Review Letters, 2001, 87, 126601.	7.8	102
6	Effect of scattering on the dynamic localization of a particle in a time-dependent electric field. Physical Review B, 1988, 37, 6622-6631.	3.2	73
7	Charge transport in molecular solids: dynamic and static disorder. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1992, 65, 831-841.	0.6	53
8	Relation between dynamic localization in crystals and trapping in two-level atoms. Physical Review A, 1996, 54, R1781-R1784.	2.5	53
9	Nonlinear response theory: Transport coefficients for driving fields of arbitrary magnitude. Physical Review E, 1997, 56, 5295-5305.	2.1	50
10	Two-Layer Multiple Trapping Model for Universal Current Transients in Molecularly Doped Polymers. Journal of Physical Chemistry C, 2010, 114, 9076-9088.	3.1	37
11	Dispersive aspects of the high-field hopping mobility of molecularly doped solids with dipolar disorder. Journal of Polymer Science, Part B: Polymer Physics, 1997, 35, 2803-2809.	2.1	22
12	Frequency-to-voltage converter based on Bloch oscillations in a capacitively coupled GaAs-GaxAl1-xAs quantum well. Physical Review B, 1993, 48, 7975-7980.	3.2	18
13	Nonlinear field dependence of the mobility of a charge subjected to a superposition of dichotomous stochastic potentials. Physical Review E, 1998, 58, 99-106.	2.1	14
14	The spatial evolution of particles diffusing in the presence of randomly placed traps. Journal of Chemical Physics, 1994, 100, 8293-8300.	3.0	12
15	Excimer formation as the relaxation of a nonlinear oscillator: Theory of states. Physical Review B, 1988, 37, 4390-4398.	3.2	8
16	Calculation of the temperature-dependent mobility transition for small-polaron hopping in one dimension. Physical Review B, 1991, 44, 85-93.	3.2	3
17	Excimers in Molecular Crystals: The Relaxation of a Nonlinear Oscillator. NATO ASI Series Series B: Physics, 1990, , 457-464.	0.2	2
18	Dispersive aspects of the high-field hopping mobility of molecularly doped solids with dipolar disorder. , 1997, 35, 2803.		1

#	ARTICLE	IF	CITATIONS
19	Communication: Fragment-based Hamiltonian model of electronic charge-excitation gaps and gap closure. <i>Journal of Chemical Physics</i> , 2015, 143, 181104.	3.0	0