

T R Middya

List of Publications by Year in descending order

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134
citing authors

#	ARTICLE	IF	CITATIONS
1	An analysis of phonon emission as controlled by the combined interaction with the acoustic and piezoelectric phonons in a degenerate III-V compound semiconductor using an approximated Fermi-Dirac distribution at low lattice temperatures. Philosophical Magazine, 2018, 98, 803-818.	1.6	2
2	Field-effect mobility of a two dimensional electron gas in an n-channel of Si-SiO ₂ MOS structure with due consideration of some practical features. Journal of Applied Physics, 2017, 122, .	2.5	1
3	Dielectric relaxation of ethanol and N-methyl acetamide polar mixture in C ₆ H ₆ at 9.90 GHz. Pramana - Journal of Physics, 2014, 83, 579-595.	1.8	7
4	Ion-conductivity study and anomalous diffusion analysis of plasticized gelatin films. Journal of Applied Polymer Science, 2013, 130, 3018-3024.	2.6	10
5	Morphology and Ion-Conductivity of Gelatin-LiClO ₄ Films: Fractional Diffusion Analysis. Journal of Physical Chemistry B, 2012, 116, 11362-11369.	2.6	33
6	Effect of gamma irradiation on the polymer electrolyte PEO-NH ₄ ClO ₄ . Ionics, 2008, 14, 323-327.	2.4	16
7	Probing microstructure of polymer electrolyte-salt complex through impedance spectroscopy. Ionics, 2004, 10, 68-72.	2.4	6
8	Diffusion with rearranging traps. Physical Review E, 2001, 63, 026205.	2.1	0
9	Ionic conductivity of PEO-NH ₄ ClO ₄ films by admittance spectroscopy: Correlation with crystallinity and morphology. Physical Review B, 1999, 60, 909-915.	3.2	20
10	A computer simulation study of ionic conductivity in polymer electrolytes. Pramana - Journal of Physics, 1998, 50, 205-212.	1.8	3
11	Morphology of Polymer-Salt Complex Films Crossover from Fractal to Compact Aggregation. Fractals, 1998, 06, 285-292.	3.7	10
12	Pipe-sphere model for enhancement of ionic conductivity in composite solid electrolytes. Ionics, 1996, 2, 346-352.	2.4	3
13	Multiple scattering theoretical approach to the effective nonlinear dielectric susceptibility of heterogeneous materials. Physica Status Solidi A, 1996, 156, 505-514.	1.7	0
14	T-matrix approach to effective nonlinear elastic constants of heterogeneous materials. Physical Review B, 1996, 54, 3926-3931.	3.2	8
15	A perturbation calculation for the elastic constants of anisotropic drawn polymers. Journal Physics D: Applied Physics, 1995, 28, 1521-1528.	2.8	0
16	Green function calculation of effective elastic constants of textured polycrystalline materials. Journal Physics D: Applied Physics, 1993, 26, 667-675.	2.8	9
17	Theoretical multiple-scattering calculation of nonlinear elastic constants of disordered solids. Physical Review B, 1992, 45, 2761-2771.	3.2	17
18	Phase-geometry-dependent bounds and self-consistent results for effective thermal conductivity of a multiphase composite using the multiple scattering theoretical approach. Journal Physics D: Applied Physics, 1989, 22, 1434-1442.	2.8	2

#	ARTICLE	IF	CITATIONS
19	Multiple scattering theory Calculation of Elastic and Dielectric Properties of Alkali Halide Solid Solutions. Physica Status Solidi (B): Basic Research, 1988, 146, 117-124.	1.5	0
20	Multiple scattering theoretic approach to the thermal expansion of inhomogeneous materials. Journal of Applied Physics, 1988, 64, 1166-1172.	2.5	3
21	A multiple scattering theoretical approach to the effective thermal conductivity of disordered solids and its dependence on phase geometry. Journal Physics D: Applied Physics, 1988, 21, 567-573.	2.8	5
22	A Green's function approach to third order elastic constants of disordered solids. Journal of Mathematical Physics, 1986, 27, 2807-2812.	1.1	4
23	Self-consistent T-matrix solution for the effective elastic properties of noncubic polycrystals. Journal of Applied Physics, 1986, 59, 2368-2375.	2.5	50
24	Self-consistent T-matrix solution and computer simulated velocity averaging approaches for the effective elastic constants of monoclinic polycrystals. Journal of Applied Physics, 1986, 59, 4043-4047.	2.5	2
25	Multiple scattering theoretical and computer simulated dynamic model approaches to effective elastic properties of randomly disordered composites. Journal of Applied Physics, 1986, 59, 2376-2381.	2.5	10
26	Self-consistent T-matrix solution for the effective elastic properties of perfectly disordered multiphase solids. Journal of Applied Physics, 1985, 58, 1809-1813.	2.5	50
27	Static and computer simulated dynamic model approaches to effective elastic properties of noncubic polycrystals. Journal of Applied Physics, 1985, 58, 4095-4101.	2.5	9
28	Elastic properties of a computer simulated polycrystalline aggregate of a single component. Journal of Applied Physics, 1985, 57, 1844-1848.	2.5	6