

J M Rowe

List of Publications by Year in descending order

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3,690
citations

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times ranked

983
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal Dynamics of Copper. <i>Physical Review</i> , 1967, 155, 619-632.	2.7	296
2	Short-Wavelength Collective Excitations in Liquid Rubidium Observed by Coherent Neutron Scattering. <i>Physical Review Letters</i> , 1974, 32, 49-52.	2.9	277
3	Lattice Dynamics of Grey Tin and Indium Antimonide. <i>Physical Review B</i> , 1971, 3, 1268-1279.	1.1	236
4	Coherent- and Incoherent-Scattering Laws of Liquid Argon. <i>Physical Review A</i> , 1972, 6, 1107-1131.	1.0	222
5	Lattice Dynamics of a Single Crystal of PdD _{0.63} . <i>Physical Review Letters</i> , 1974, 33, 1297-1300.	2.9	220
6	Density fluctuations in liquid rubidium. I. Neutron-scattering measurements. <i>Physical Review A</i> , 1974, 9, 1656-1666.	1.0	211
7	Lattice dynamics of cadmium telluride. <i>Physical Review B</i> , 1974, 10, 671-675.	1.1	192
8	Existence of an orientational glass state in (KCN) _x (KBr) _{1-x} mixed crystals. <i>Physical Review B</i> , 1980, 22, 1417-1428.	1.1	153
9	Neutron Scattering Study of the Dynamics of (KCN) _{0.5} (KBr) _{0.5} . <i>Physical Review Letters</i> , 1979, 43, 1158-1161.	2.9	145
10	Single crystal neutron diffraction study of sodium cyanide. <i>Journal of Chemical Physics</i> , 1973, 58, 2039-2042.	1.2	134
11	Neutron Quasielastic Scattering Study of Hydrogen Diffusion in a Single Crystal of Palladium. <i>Physical Review Letters</i> , 1972, 29, 1250-1253.	2.9	108
12	Direct determination of the anharmonic vibrational potential for H in Pd. <i>European Physical Journal B</i> , 1984, 55, 283-286.	0.6	107
13	Local hydrogen vibrations in Nb in the presence of interstitial (N,O) and substitutional (V) impurities. <i>Physical Review B</i> , 1983, 27, 927-934.	1.1	106
14	Crystal dynamics of KCN and NaCN in the disordered cubic phase. <i>Journal of Chemical Physics</i> , 1975, 62, 4551-4554.	1.2	93
15	Nature of the Phase Transition in KCN at 168 K. <i>Physical Review Letters</i> , 1978, 40, 455-458.	2.9	91
16	Neutron diffraction study of the structure and phase transitions of alkali cyanide crystals. <i>Journal of Chemical Physics</i> , 1977, 66, 5147-5149.	1.2	77
17	Low-Energy Excitations in (KBr) _{1-x} (KCN) _x in the Orientational Glass State. <i>Physical Review Letters</i> , 1983, 51, 1050-1053.	2.9	75
18	Single Crystal Neutron Diffraction Study of Potassium Cyanide. <i>Journal of Chemical Physics</i> , 1972, 56, 3697-3702.	1.2	72

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19	Neutron powder diffraction study of phase transitions and structures of $(\text{KCN})_x(\text{KBr})_{1-x}$ mixed crystals. <i>Physical Review B</i> , 1983, 28, 3506-3511.	1.1	56
20	Molecular symmetry and translation-rotation coupling in orientationally disordered crystals. <i>Physical Review B</i> , 1985, 32, 5818-5826.	1.1	54
21	Acoustic modes of the phonon dispersion relation of NbD_x alloys. <i>Physical Review B</i> , 1975, 12, 2959-2964.	1.1	48
22	Quasielastic Thermal Neutron Scattering by Hydrogen in ϵ -Vanadium Hydride. <i>Journal of Chemical Physics</i> , 1972, 56, 4574-4581.	1.2	45
23	Crystal structure of rubidium cyanide at 4 K determined by neutron powder diffraction. <i>Physical Review B</i> , 1984, 29, 2168-2170.	1.1	42
24	Isotope Effects in the PdH System: Lattice Dynamics of $\text{PdT}_{0.7}$. <i>Physical Review Letters</i> , 1986, 57, 2955-2958.	2.9	41
25	Glass and phase transitions in $(\text{KBr})_{1-x}(\text{KCN})_x$. <i>Physical Review B</i> , 1988, 37, 389-398.	1.1	41
26	Local modes in dilute metal-hydrogen alloys. <i>Physical Review B</i> , 1986, 33, 2093-2097.	1.1	39
27	Neutron quasielastic scattering study of the ammonium ion reorientations in a single crystal of NH_4Br at 373 Å°K. <i>Journal of Chemical Physics</i> , 1974, 60, 4541-4546.	1.2	38
28	Crystal Dynamics of Metallic ϵ -Sn at 110 Å°K. <i>Physical Review</i> , 1967, 163, 547-551.	2.7	37
29	Inelastic Neutron Scattering from a Liquid He_3 - He_4 Mixture. <i>Physical Review Letters</i> , 1973, 31, 510-513.	2.9	36
30	Local properties in orientationally disordered crystals with translation-rotation coupling. <i>Physical Review B</i> , 1985, 32, 5827-5836.	1.1	36
31	Study of hydrogen diffusion in tantalum hydrides by inelastic neutron scattering. <i>Journal of Chemical Physics</i> , 1973, 59, 6570-6576.	1.2	33
32	Inelastic-neutron-scattering line shapes in $\text{PdD}_{0.63}$. <i>Physical Review B</i> , 1978, 17, 488-493.	1.1	33
33	Neutron scattering studies of crystal dynamics and order-disorder phase transitions in alkali cyanides. <i>Ferroelectrics</i> , 1977, 16, 107-109.	0.3	32
34	Localized modes and hydrogen trapping in niobium with substitutional impurities. <i>Physical Review B</i> , 1983, 27, 6227-6233.	1.1	30
35	Neutron-quasielastic-scattering study of hydrogen diffusion in a single crystal of tantalum. <i>Physical Review B</i> , 1974, 9, 5039-5045.	1.1	28
36	Lattice dynamics of ND_4I in the NaCl phase (I) at 296 Å°K. <i>Physical Review B</i> , 1975, 12, 4522-4529.	1.1	26

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37	Neutron scattering study of rotation-translation interactions in (KCN) _{0.25} (KBr) _{0.75} . Journal of Chemical Physics, 1978, 68, 4320-4321.	1.2	21
38	Tritium vibrations in niobium by neutron spectroscopy. Physical Review B, 1981, 24, 4903-4905.	1.1	21
39	Dynamics of dilute H in β -phase palladium deuteride: A novel mass defect. Physical Review B, 1985, 31, 6102-6103.	1.1	18
40	Interaction of vibrating H atoms on the surface of platinum particles by isotope dilution neutron spectroscopy. Journal of Chemical Physics, 1985, 83, 5339-5341.	1.2	16
41	Neutron quasielastic scattering study of SH reorientation in the cubic phases of cesium and rubidium hydrosulfide. Journal of Chemical Physics, 1973, 58, 5469-5473.	1.2	15
42	Low-temperature lattice properties of PdD alloys. Journal of Physics F: Metal Physics, 1978, 8, L7-L8.	1.6	14
43	Neutron quasielastic scattering study of SH reorientation in rubidium hydrosulfide in the intermediate temperature trigonal phase. Journal of Chemical Physics, 1973, 59, 6652-6655.	1.2	13
44	Diffuse neutron scattering in sodium and potassium cyanide. Physical Review B, 1984, 29, 4727-4732.	1.1	13
45	"In-Band" Modes of Vibration of PdH _{0.03} . Physical Review B, 1973, 8, 6013-6014.	1.1	10
46	Materials research with neutrons at NIST. Journal of Research of the National Institute of Standards and Technology, 2001, 106, 187.	0.4	10
47	Observation of low-energy excitations in NbD: A simple lattice-dynamical model. Physical Review B, 1981, 23, 1605-1608.	1.1	7
48	Coherent neutron scattering study of the vibrations of interstitial deuterium in β -VD _{0.7} . Physical Review B, 1980, 21, 5613-5616.	1.1	6
49	Structure of the mixed crystal (KCN) _{0.7} (KBr) _{0.3} determined by neutron powder diffraction. Physical Review B, 1987, 36, 1766-1771.	1.1	6
50	Neutron quasielastic scattering study of ND ₄ orientational fluctuations in β -phase ND ₄ Br. Journal of Chemical Physics, 1978, 69, 2928.	1.2	3
51	Comment on "High temperature thermodynamics of palladium-hydrogen. II. Temperature dependence of partial molar properties of dilute solutions of hydrogen in the range 500-700 K [J. Chem. Phys. 65, 3915(1976)]. Journal of Chemical Physics, 1978, 68, 3954-3954.	1.2	3
52	Observation of critical dynamics in ND ₄ Br by high-resolution neutron spectroscopy. Journal of Chemical Physics, 1981, 74, 5323-5324.	1.2	2
53	Localized Vibrations of Hydrogen in Metals. Springer Proceedings in Physics, 1986, , 170-175.	0.1	2