

Yacov Finkelstein

List of Publications by Year in descending order

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55
papers

423
citations

759233

12
h-index

888059

17
g-index

55
all docs

55
docs citations

55
times ranked

453
citing authors

#	ARTICLE	IF	CITATIONS
1	Temperature dependence of the proton kinetic energy in water between 5 and 673K. Chemical Physics, 2014, 431-432, 58-63.	1.9	37
2	In situ detection of thermally induced porosity in additively manufactured and sintered objects. Journal of Materials Science, 2019, 54, 8665-8674.	3.7	27
3	The mechanism of monensin-mediated cation exchange based on real time measurements. Biochimica Et Biophysica Acta - Biomembranes, 1996, 1285, 131-145.	2.6	25
4	Determining the band gap and mean kinetic energy of atoms from reflection electron energy loss spectra. Journal of Chemical Physics, 2015, 143, 104203.	3.0	22
5	NO ₂ adsorption on Grafoil between 297 and 12 K. Physical Review B, 1996, 53, 16006-16012.	3.2	19
6	Proton dynamics in ice VII at high pressures. Journal of Chemical Physics, 2013, 139, 044716.	3.0	19
7	Quantum behavior of water nano-confined in beryl. Journal of Chemical Physics, 2017, 146, 124307.	3.0	18
8	Measuring the water content in freshly-deposited fingermarks. Forensic Science International, 2019, 294, 204-210.	2.2	18
9	Nondestructive determination of the ¹³ C content in isotopic diamond by nuclear resonance fluorescence. Journal of Applied Physics, 1998, 83, 5484-5488.	2.5	16
10	Study of Type-A Zeolites. Part 1: Mechanism of He and Ne Encapsulation. Journal of Physical Chemistry B, 2003, 107, 9170-9174.	2.6	14
11	Effective temperature of amorphous carbon studied using nuclear-resonance photon scattering. Physical Review B, 1997, 56, 187-193.	3.2	13
12	Study of the Papyex structure using neutron Compton scattering. Physica B: Condensed Matter, 2000, 291, 213-218.	2.7	13
13	The role of surface coarsening and sintering during thermal decomposition of titanium hydride. International Journal of Hydrogen Energy, 2019, 44, 6045-6054.	7.1	12
14	On the mean kinetic energy of the proton in strong hydrogen bonded systems. Journal of Chemical Physics, 2016, 144, 054302.	3.0	11
15	Oriented N ₂ molecules intercalated in C ₂₄ Rb. Physical Review B, 1995, 52, 5330-5334.	3.2	10
16	Out-of-plane orientation of multilayer N ₂ films adsorbed on Grafoil at 20 K. Surface Science, 1999, 437, 265-276.	1.9	10
17	A continuous polymorphic transition of coordinating water molecules in CuSO ₄ ·5H ₂ O. Journal of Physics and Chemistry of Solids, 2003, 64, 701-706.	4.0	9
18	Microscopic Study of Proton Kinetic Energy Anomaly for Nanoconfined Water. Journal of Physical Chemistry B, 2020, 124, 190-198.	2.6	9

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19	Nuclear-resonance-photon-scattering study of the effective temperatures of diamond and of highly oriented pyrolytic graphite. <i>Physical Review B</i> , 1998, 58, 4166-4172.	3.2	8
20	Applying Semi-Empirical Quantum Harmonic Calculations for Studying the Atomic Kinetic Energies in Hydrogen Bonded Systems. <i>Current Physical Chemistry</i> , 2017, 7, .	0.2	8
21	Proton dynamics in hydrogen-bonded systems. <i>Molecular Physics</i> , 2016, 114, 2108-2114.	1.7	7
22	Tilt of N ₂ molecules phsintercalated into C24K and C24Rb. <i>Journal of Physics and Chemistry of Solids</i> , 1996, 57, 909-913.	4.0	6
23	Nuclear-resonance photon scattering study of N ₂ O multilayers adsorbed on Grafoil at 12 K. <i>Physical Review B</i> , 2000, 61, 7700-7705.	3.2	6
24	Sieving Effect of Neon and Helium at High Temperature on Carbon Molecular Sieve Fibers. <i>Langmuir</i> , 2002, 18, 638-641.	3.5	6
25	Electron scattering as a tool to study zero-point kinetic energies of atoms in molecules. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015, 354, 37-41.	1.4	6
26	Anisotropic nuclear-resonance photon scattering from a single crystal of NaNO ₂ . <i>Physical Review B</i> , 1999, 59, 6211-6216.	3.2	5
27	Study of Type-A Zeolites. Part 2: Effect of Dehydration on the Effective Aperture Dimension. <i>Journal of Physical Chemistry B</i> , 2003, 107, 13414-13418.	2.6	5
28	Encapsulation of He and Ne in Carbon Molecular Sieves. <i>Langmuir</i> , 2003, 19, 218-219.	3.5	5
29	Selective and reversible entrapment of He and Ne in NaA zeolite at atmospheric pressure. <i>Journal of Chemical Physics</i> , 2003, 118, 4221-4225.	3.0	5
30	Anisotropy of the proton kinetic energy in CsH ₂ PO ₄ and KH ₂ PO ₄ . <i>Surface Science</i> , 2018, 668, 112-116.	1.9	5
31	Oxidation induced cubic-tetragonal phase transformation in titanium hydride powders. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 25043-25053.	7.1	5
32	Thermal desorption kinetics of H ₂ O and H ₂ from rapidly solidified Al-Zn-Mg alloy powders. <i>Thermochimica Acta</i> , 2020, 686, 178554.	2.7	5
33	Effect of the temperature variation of $\hat{\nu}^3$ -sources on the resonance scattering cross section. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997, 129, 250-256.	1.4	4
34	A New Route of Oxygen Isotope Exchange in the Solid Phase: Demonstration in CuSO ₄ ·5H ₂ O. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21197-21201.	2.6	4
35	Comparison between electron and neutron Compton scattering studies. <i>EPJ Web of Conferences</i> , 2015, 93, 02011.	0.3	4
36	Non-isothermal hydrogen desorption from $\hat{\nu}^2$ -UH ₃ : Kinetics and mechanism. <i>Journal of Nuclear Materials</i> , 2018, 510, 484-491.	2.7	4

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37	C ₂₄ samples containing oriented N ₂ molecules. Journal of Materials Research, 1999, 14, 3130-3137.	2.6	3
38	Study of the anisotropy in the atomic momentum distributions in a Kapton film. Journal of Physics Condensed Matter, 2001, 13, 5053-5063.	1.8	3
39	Sensing the Physicochemical Nature of He and Ne in Micropores by Adsorption Measurements. Journal of Physical Chemistry B, 2005, 109, 11180-11185.	2.6	3
40	Comment to "Dynamics of supercooled confined water measured by deep inelastic neutron scattering". Frontiers of Physics, 2019, 14, 1.	5.0	2
41	On H-dynamics of supercooled water confined in nanoporous silica. Chemical Physics, 2019, 523, 83-86.	1.9	2
42	Anisotropy of the proton kinetic energy in ice Ih. Surface Science, 2019, 679, 174-179.	1.9	2
43	Nuclear resonance photon scattering studies of N ₂ adsorbed on grafoil and of NaNO ₂ single crystal. Journal of Research of the National Institute of Standards and Technology, 2000, 105, 159.	1.2	2
44	Anisotropy of the Proton Kinetic Energy as a Tool for Capturing Structural Transition in Water Confined in a Graphene Nanoslit Pore. Journal of Physical Chemistry Letters, 2022, 13, 455-461.	4.6	2
45	Adsorption of N ₂ monolayers on Papyex in the liquid and vapor phases. Surface Science, 1999, 443, 89-98.	1.9	1
46	A practical all-metal flange-seal for high and low temperatures. Review of Scientific Instruments, 2000, 71, 591-592.	1.3	1
47	On some controversy regarding $\dot{\gamma}/2\text{OH}$ assignments in CsH ₂ PO ₄ . Vibrational Spectroscopy, 2018, 95, 75-79.	2.2	1
48	Kinetic energy of oxygen atoms in water and in silica hydrogel. Chemical Physics, 2020, 533, 110716.	1.9	1
49	Second Stage Physintercalation of N ₂ Molecules into C ₂₄ Rb. Molecular Crystals and Liquid Crystals, 1998, 310, 105-110.	0.3	0
50	Use of n-capture $\dot{\gamma}$ -rays for studies in surface and solid state physics. AIP Conference Proceedings, 2000, , ,	0.4	0
51	Testing the lattice modes of NaCN by nuclear resonance photon scattering. Journal of Physics Condensed Matter, 2001, 13, 2473-2479.	1.8	0
52	The role of the cation in the oxygen isotopic exchange in crystalline sulfate salt hydrates. Adsorption, 2013, 19, 821-833.	3.0	0
53	New method for measuring the time integral of neutron flux in a reactor. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 908, 155-158.	1.6	0
54	Proton dynamics in a single H ₂ O confined in a Buckyball. Vibrational Spectroscopy, 2021, 116, 103287.	2.2	0

#	ARTICLE	IF	CITATIONS
55	On the Atomic Kinetic Energies in Ceramic Oxides. Journal of Materials Science and Chemical Engineering, 2017, 05, 17-27.	0.4	0