Vladlen Melnikov

List of Publications by Year
in descending order

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38 papers	299 citations	1039880 9 h-index	940416 16 g-index
40 all docs	40 docs citations	40 times ranked	236 citing authors

#	Article	IF	Citations
1	Positron Binding Energies for Alkali Hydrides. Journal of Physical Chemistry A, 2005, 109, 5956-5964.	1.1	67
2	An ab initio calculation of the vibrational energies and transition moments of HSOH. Journal of Molecular Spectroscopy, 2009, 257, 57-65.	0.4	32
3	Valley ridge inflection points on the potential energy surfaces of H2S, H2Se and H2CO. Physical Chemistry Chemical Physics, 2001, 3, 2735-2741.	1.3	25
4	The double Renner effect in the XÌƒAâ€³2 and AÌƒAâ€²2 electronic states of HO2. Journal of Chemical Physics, 2008, 128, 114316.	1.2	16
5	Theoretical rotation-torsion energies of HSOH. Journal of Chemical Physics, 2008, 129, 154314.	1.2	15
6	Theoretical study of the double Renner effect for AÌƒÎ2 MgNCâ•MgCN: Higher excited rovibrational states. Journal of Chemical Physics, 2007, 126, 094301.	1.2	14
7	Adhesion at the interfaces between BCC metals and Î±-Al2O3. Journal of Experimental and Theoretical Physics, 2012, 114, 305-313.	0.2	12
8	Structure and Phase Composition of a W-Ta-Mo-Nb-V-Cr-Zr-Ti Alloy Obtained by Ball Milling and Spark Plasma Sintering. Entropy, 2020, 22, 143.	1.1	11
9	The Bending Vibrational Ladder of H13C15N by Hot Gas Emission Spectroscopy. Journal of Molecular Spectroscopy, 2002, 211, 189-197.	0.4	10
10	ExoMol line lists â€“ XL. Rovibrational molecular line list for the hydronium ion (H3O+). Monthly Notices of the Royal Astronomical Society, 2020, 497, 2340-2351.	1.6	8
11	Hydrogen in single-crystalline anatase TiO2. Journal of Applied Physics, 2022, 131, .	1.1	8
12	Potential energy surface and spectroscopic parameters of <mml:math altimg="si30.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	1.2	7
13	Structural and energy properties of interstitial molecular hydrogen in single-crystal silicon. Journal of Experimental and Theoretical Physics, 2015, 120, 1005-1011.	0.2	7
14	Calculation of rovibronic intensities for triatomic molecules in double-Renner-degenerate electronic states: Application to the XÌƒâ€‰A2â€³ and AÌƒâ€‰A2â€² electronic states of HO2. Journal of Chemical Physics, 2009, 130, 224105.	1.2	6
15	Adhesion of niobium films to differently oriented Î±-Al2O3 surfaces. Technical Physics, 2011, 56, 1494-1500.	0.2	6
16	Rotational States of the Hydrogen Molecule in the Crystalline Silicon Matrix. Russian Physics Journal, 2014, 56, 1363-1369.	0.2	6
17	Radiative cooling of H₃O⁺ and its deuterated isotopologues. Physical Chemistry Chemical Physics, 2016, 18, 26268-26274.	1.3	6
18	Theoretical investigations of 3d-metal adsorption on the Î±-AL2O3 (0001) surface. Russian Physics Journal, 2011, 54, 704-712.	0.2	5

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19	Roto-translational states of the interstitial molecular hydrogen in silicon: A theoretical study. Journal of Chemical Physics, 2015, 143, 164305.	1.2	5
20	Development of a General Approach to the Modeling of Free and Confined Polyatomic Systems. Russian Physics Journal, 2015, 58, 1040-1043.	0.2	4
21	A Multi-Layer Composite Based on the 3Niâ€“Al System Produced by a Combined Deformation Treatment. Russian Physics Journal, 2019, 61, 1674-1680.	0.2	4
22	Hydrogen Donors in Anatase TiO2. Physica Status Solidi (B): Basic Research, 2021, 258, 2100171.	0.7	4
23	On the Mechanism of Ortho-Para Conversion of Molecular Hydrogen in Semiconductors. Russian Physics Journal, 2017, 59, 2168-2170.	0.2	3
24	The Influence of Duration of Preliminary Mechanical Activation on Microhardness of Specimens of Ni3Al Intermetallide Synthesized Under Conditions of Spark Plasma Sintering. Russian Physics Journal, 2019, 61, 1947-1949.	0.2	3
25	Substitutional Sulfur in CdSe: Localized Vibrational Modes. Physica Status Solidi (B): Basic Research, 2020, 257, 2000204.	0.7	3
26	Dominant hydrogen complex in natural anatase TiO2. Journal of Applied Physics, 2021, 130, 145701.	1.1	3
27	A Hydrogen â€“ Vacancy Defect In Single-Crystal Silicon. Russian Physics Journal, 2016, 59, 618-625.	0.2	2
28	Two-dimensional<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>in Si: Raman scattering and modeling study. Physical Review B, 2018, 97, .	1.1	2
29	Band Structure of Energy Levels of Molecular Hydrogen in the Crystalline Silicon Matrix. Russian Physics Journal, 2015, 57, 1294-1296.	0.2	1
30	Thermal stability of microstructure and microhardness of Ni3Al samples with different duration of preliminary mechanical activation. AIP Conference Proceedings, 2019, , .	0.3	1
31	Microstructure and Microhardness of a Multicomponent System After Mechanical Activation and Spark Plasma Sintering. Russian Physics Journal, 2020, 62, 1746-1748.	0.2	1
32	Interstitial H2 in Si29. Physical Review B, 2021, 103, .	1.1	1
33	SO4* complex in CdTe: Infrared absorption spectroscopy and first-principles calculations. Physical Review B, 2021, 104, .	1.1	1
34	Theoretical study of interfaces between bcc metals and Î±-Al2O3. IOP Conference Series: Materials Science and Engineering, 2011, 23, 012041.	0.3	0
35	The Influence of Duration of Mechanical Activation of Titanium Powder on its Morphology, Microstructure, and Microhardness. Russian Physics Journal, 2017, 60, 1033-1039.	0.2	0
36	A study of the morphology, microstructure, and microhardness of titanium powder depending on the mechanical activation time. AIP Conference Proceedings, 2017, , .	0.3	0

#	Article	IF	Citations
37	Influence of mechanical activation duration on morphology, microstructure and microhardness of 3Ni â€“ Al-system powder compound. IOP Conference Series: Materials Science and Engineering, 2019, 597, 012047.	0.3	0
38	SO ₄ in Cadmium Chalcogenides: CdSe versus CdTe. Physica Status Solidi (B): Basic Research, 0, , 2200029.	0.7	0