

Vitalii P Petranovskii

List of Publications by Year in descending order

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623188

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95
docs citations

95
times ranked

738
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability of silver clusters in mordenites with different SiO ₂ /Al ₂ O ₃ molar ratio. Applied Surface Science, 1999, 150, 58-64.	3.1	49
2	A Cationic Cesium Continuum in Zeolite X. The Journal of Physical Chemistry, 1994, 98, 5768-5772.	2.9	44
3	PdO/Al ₂ O ₃ -(Ce _{1-X} Zr _X)O ₂ catalysts: effect of the sol-gel support composition. Catalysis Letters, 2006, 110, 53-60.	1.4	43
4	The influence of gold on the optical properties of sol-gel derived titania. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 396, 70-76.	2.6	38
5	Ammonium modified natural clinoptilolite to remove manganese, cobalt and nickel ions from wastewater: Favorable conditions to the modification and selectivity to the cations. Microporous and Mesoporous Materials, 2018, 255, 200-210.	2.2	31
6	The effect of gold on the phase transitions of titania. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2005, 396, 61-69.	2.6	27
7	Pulse width influence in fast frequency measurements using rational approximations. Measurement: Journal of the International Measurement Confederation, 2016, 86, 67-78.	2.5	26
8	Copper-Silver Bimetallic System on Natural Clinoptilolite: Thermal Reduction of Cu ²⁺ and Ag ⁺ Exchanged. Journal of Nanoscience and Nanotechnology, 2011, 11, 5580-5586.	0.9	23
9	Mathematical Modelling of molecular adsorption in zeolite coated frequency domain sensors. IFAC-PapersOnLine, 2015, 48, 41-46.	0.5	22
10	Recent Advances in Catalysis Based on Transition Metals Supported on Zeolites. Frontiers in Chemistry, 2021, 9, 716745.	1.8	20
11	Few-Atomic Silver Clusters in Zeolites: Ab Initio MO LCAO Calculation and Optical Spectroscopy. Journal of Physical Chemistry B, 2000, 104, 12105-12110.	1.2	18
12	Bimetallic AgFe Systems on Mordenite: Effect of Cation Deposition Order in the NO Reduction with C ₃ H ₆ /CO. Catalysts, 2019, 9, 58.	1.6	18
13	Analysis of theoretical and experimental X-ray diffraction patterns for distinct mordenite frameworks. Journal of Materials Science, 2019, 54, 7745-7757.	1.7	17
14	Inception and Trapping of ZnO Nanoparticles within Desilicated Mordenite and ZSM-5 Zeolites. Particle and Particle Systems Characterization, 2010, 27, 100-111.	1.2	16
15	Light intensity-induced phase transitions in graphene oxide doped polyvinylidene fluoride. Optical Materials Express, 2018, 8, 2579.	1.6	15
16	Spectroscopic observation and ab initio simulation of copper clusters in zeolites. Catalysis Today, 2005, 107-108, 892-900.	2.2	14
17	Atomic and Electronic Structure of Quaternary Cd _x Zn _y S _{1-x-y} O ₃ Nanoparticles Grown on Mordenite. Chemistry of Materials, 2014, 26, 6152-6159.	3.2	14
18	Optimization of pulse width for frequency measurement by the method of rational approximations principle. Measurement: Journal of the International Measurement Confederation, 2018, 125, 463-470.	2.5	14

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19	Comprehensive Analysis of the Copper Exchange Implemented in Ammonia and Protonated Forms of Mordenite Using Microwave and Conventional Methods. <i>Molecules</i> , 2019, 24, 4216.	1.7	14
20	The effect of chemical composition on the properties of LTA zeolite: A theoretical study. <i>Computational Materials Science</i> , 2021, 196, 110557.	1.4	14
21	Plasmon Features of Coinage Metal Nanoparticles Supported on Zeolites. <i>Plasmonics</i> , 2013, 8, 1551-1558.	1.8	12
22	Frequency Domain Sensors and Frequency Measurement Techniques. <i>Applied Mechanics and Materials</i> , 2015, 756, 575-584.	0.2	12
23	Resolution improvement of accelerometers measurement for drones in agricultural applications. , 2016, , .		11
24	Disperse orange 30 dye degradation by assisted plasmonic photocatalysis using Ag-CdZnSO/zeolitic matrix nanocomposites. <i>Catalysis Communications</i> , 2016, 75, 103-107.	1.6	11
25	A New Approach to Measurement of Frequency Shifts Using the Principle of Rational Approximations. <i>Metrology and Measurement Systems</i> , 2017, 24, 45-56.	1.4	10
26	Local Structures of Two-Dimensional Zeolitesâ€”Mordenite and ZSM-5â€”Probed by Multinuclear NMR. <i>Molecules</i> , 2020, 25, 4678.	1.7	10
27	Optical response of Cu clusters in zeolite template. <i>Journal of Colloid and Interface Science</i> , 2012, 375, 60-64.	5.0	9
28	Acceleration measurement improvement by application of novel frequency measurement technique for FDS based INS. , 2014, , .		9
29	Ion-exchange of amino- and aqua-complexes of nickel and cobalt in natural clinoptilolite. <i>Journal of Environmental Chemical Engineering</i> , 2014, 2, 1221-1227.	3.3	9
30	QCM modified with FAU zeolite nanostructures for analysis of temperature induced adsorbed mass changes. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 172, 108935.	2.5	9
31	Photocatalytic Degradation of Rhodamine B Dye in Aqueous Suspension by ZnO and M-ZnO (M = La ³⁺), Tj ETQq1 1 0.784314 rgBT /O 1.3		9
32	A DFT study of copper-oxide clusters embedded in dry and water-immersed siliceous mordenite. <i>Computational Materials Science</i> , 2015, 106, 140-148.	1.4	8
33	Thermal analysis and EPR study of copper species in mordenites prepared by conventional and microwave-assisted methods. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 71-79.	2.0	8
34	One-pot synthesis of lamellar mordenite and ZSM-5 zeolites and subsequent pillaring by amorphous SiO ₂ . <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 557-565.	1.6	8
35	A comparative analysis of natural zeolites from various Cuban and Mexican deposits: structure, composition, thermal properties and hierarchical porosity. <i>Journal of Thermal Analysis and Calorimetry</i> , 2022, 147, 6147-6159.	2.0	8
36	Spectral-Optic Response of ZnS and Mixed Cd _x Zn _{1-x} S Nanoclusters on Synthetic Mordenites. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10260-10266.	1.5	7

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37	Engineering of Supported Nanomaterials. <i>Procedia Chemistry</i> , 2014, 10, 25-30.	0.7	7
38	A theoretical study of Cu clusters in siliceous erionite. <i>Journal of Molecular Structure</i> , 2014, 1059, 232-238.	1.8	7
39	Plasmon resonance of gold nanoparticles supported on Y-zeolite in the presence of various co-cations. <i>Applied Surface Science</i> , 2014, 321, 136-143.	3.1	7
40	Tessellation Methods for Modeling the Material Structure. <i>Applied Mechanics and Materials</i> , 0, 756, 426-435.	0.2	7
41	Filling of Irregular Channels with Round Cross-Section: Modeling Aspects to Study the Properties of Porous Materials. <i>Materials</i> , 2018, 11, 1901.	1.3	7
42	Effect of phase in fast frequency measurements for sensors embedded in robotic systems. <i>International Journal of Advanced Robotic Systems</i> , 2019, 16, 172988141986972.	1.3	7
43	Properties of Iron-Modified-by-Silver Supported on Mordenite as Catalysts for NO _x Reduction. <i>Catalysts</i> , 2020, 10, 1156.	1.6	7
44	Aluminum distribution in mordenite-zeolite framework: A new outlook based on density functional theory calculations. <i>Journal of Solid State Chemistry</i> , 2022, 306, 122725.	1.4	7
45	Microbiologically active nanocomposite media. , 2003, 5218, 244.		6
46	Effect of the Zeolitic Matrix on the Reduction Process of Cu ²⁺ Cations in Clinoptilolite, Mordenite and Erionite. <i>Advanced Materials Research</i> , 0, 880, 48-52.	0.3	6
47	Textural Properties of Hybrid Biomedical Materials Made from Extracts of <i>Tournefortia hirsutissima</i> L. Imbibed and Deposited on Mesoporous and Microporous Materials. <i>Journal of Nanomaterials</i> , 2016, 1-10.	1.5	6
48	A comparative analysis of the protonated and copper exchanged mordenites with SiO ₂ /Al ₂ O ₃ molar ratio equal to 10. <i>International Journal of Nanotechnology</i> , 2016, 13, 136.	0.1	6
49	Recognition of depth composition profiles of copper-exchanged mordenites applying analytical methods with different depth vision. <i>Materials Chemistry and Physics</i> , 2019, 236, 121787.	2.0	6
50	Frequency Shifts Estimation for Sensors Based on Optoelectronic Oscillators. <i>IEEE Sensors Journal</i> , 2021, 21, 11283-11290.	2.4	6
51	Basic Aspects in the Application of QCMs as Sensors: A Tutorial. <i>IEEE Sensors Journal</i> , 2022, 22, 10163-10172.	2.4	6
52	Rational approximations principle for frequency shifts measurement in frequency domain sensors. , 2015, , .		5
53	Theoretical study of the effect of isomorphous substitution by Al^{3+} and/or Fe^{3+} cations to tetrahedral positions in the framework of a zeolite with erionite topology. <i>Journal of Materials Science</i> , 2019, 54, 13190-13199.	1.7	5
54	Fe Speciation in Iron Modified Natural Zeolites as Sustainable Environmental Catalysts. <i>Catalysts</i> , 2019, 9, 866.	1.6	5

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55	Chabazite Synthesis and Its Exchange with Ti, Zn, Cu, Ag and Au for Efficient Photocatalytic Degradation of Methylene Blue Dye. International Journal of Molecular Sciences, 2022, 23, 1730.	1.8	5
56	Iron exchanged natural mordenite: UV-Vis diffuse reflectance and Mössbauer spectroscopy characterisation. International Journal of Nanotechnology, 2016, 13, 112.	0.1	4
57	Adsorption of N ₂ , NO ₂ and CO ₂ on Epistilbite Natural Zeolite from Jalisco, Mexico after Acid Treatment. Minerals (Basel, Switzerland), 2018, 8, 196.	0.8	4
58	Formation of admixed phase during microwave assisted Cu ion exchange in mordenite. Materials Chemistry and Physics, 2021, 261, 124235.	2.0	4
59	Thermal analysis and porosimetry of natural zeolites from mexican and cuban deposits. Applied Solid State Chemistry, 2017, 1, 35-41.	0.1	4
60	Monosized sphere packing approach in the nanoporous structure modeling. , 2012, , .		3
61	Some Aspects of Computer Approaches to Simulation of Bimodal Sphere Packing in Material Engineering. Advanced Materials Research, 0, 1040, 585-591.	0.3	3
62	Instability measurement in time-frequency references used on autonomous navigation systems. , 2015, , .		3
63	High resolution measurement of physical variables change for INS. , 2016, , .		3
64	Synthesis of nanostructured metalâ€“, semiconductorâ€“, and metal/semiconductorâ€“mordenite composites from geothermal waste. Journal of Applied Research and Technology, 2016, 14, 232-238.	0.6	3
65	Use of natural mordenite to remove chromium (III) and to neutralize pH of alkaline waste waters. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2016, 51, 425-433.	0.9	3
66	Experimental analysis of measurement process for a QCM using the pulse coincidence method. , 2019, , .		3
67	ADSORCIÃ“N DE CO ₂ , H ₂ Y CH ₄ EN ZEOLITAS NATURALES DE PORO ANGOSTO. Revista Internacional De Contaminacion Ambiental, 2018, 34, 685-696.	0.1	3
68	Application of the Principle of Rational Approximations for Measuring Dynamic Frequency Values Generated by an IMU. Advances in Computational Intelligence and Robotics Book Series, 2020, , 26-51.	0.4	3
69	Bimetallic Copper-Silver Systems Supported on Natural Clinoptilolite: Long-Term Changes in Nanospeciesâ€™ Composition and Stability. Inorganics, 2022, 10, 34.	1.2	3
70	Plasmon resonance of copper nanoparticles within zeolites: the effect of matrix composition and agglomeration temperature. , 2001, , .		2
71	Reduction of binary silverâ€“copper ion mixture in mordenite: an example of synergetic behavior. Studies in Surface Science and Catalysis, 2002, 141, 569-574.	1.5	2
72	Phase effect in frequency measurements of a quartz crystal using the pulse coincidence principle. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
91	Plasmon spectra of binary Ag-Cu mixtures supported in mordenite. , 2016, , .		0
92	Analysis of Spatial Localization Trough Frequency Counting for Accelerometers Embedded in INS. , 2019, , .		0
93	Nanoporosity and Isothermic Enthalpy of Adsorption of CH ₄ , H ₂ , and CO ₂ on Natural Chabazite and Exchanged. Separations, 2022, 9, 150.	1.1	0