Pavel Usov

List of Publications by Year in descending order

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Version: 2024-02-01

43 papers	1,241 citations	471509 17 h-index	361022 35 g-index
44 all docs	44 docs citations	44 times ranked	2141 citing authors

#	Article	IF	Citations
1	NUMERICAL ANALYSIS OF TRANSIENT PROCESSESIN VISCOELASTIC HYDRODYNAMIC CONTACT UNDER RECIPROCATING MOTION. Problemy MaÅ¡inostroeniÃ¢ I Avtomatizacii, 2021, , 81-90.	0.1	0
2	Spectroelectrochemistry: A Powerful Tool for Studying Fundamental Properties and Emerging Applications of Solid-State Materials Including Metalâ€“Organic Frameworks. Australian Journal of Chemistry, 2021, 74, 77.	0.9	5
3	Multi-interactive Coordination Network Featuring a Ligand with Topologically Isolated p Orbitals. Inorganic Chemistry, 2021, 60, 17858-17864.	4.0	3
4	Numerical Analysis of Transition Processes in a Viscoelastic Hydrodynamic Contact during Reverse Motion. Journal of Machinery Manufacture and Reliability, 2021, 50, 661-670.	0.5	1
5	Pyridinium modification of a hexaazaphenalene skeleton: structure and spectroelectrochemical analysis. CrystEngComm, 2020, 22, 5987-5994.	2.6	3
6	Semi-conducting mixed-valent X₄TCNQ^{Iâ^'/IIâ^'} (X = H, F) charge-transfer complexes with C₆H₂(NH₂)₄. Journal of Materials Chemistry C, 2020, 8, 9422-9426.	5.5	4
7	A Semiconducting Cationic Squareâ€Grid Network with Fe III Centers Displaying Unusual Dynamic Behavior. European Journal of Inorganic Chemistry, 2020, 2020, 1255-1259.	2.0	1
8	Solidâ€“Gas Phase Synthesis of Coordination Networks by Using Redoxâ€Active Ligands and Elucidation of Their Oxidation Reaction. Chemistry - A European Journal, 2019, 25, 11512-11520.	3.3	5
9	Independent Quantification of Electron and Ion Diffusion in Metallocene-Doped Metalâ€“Organic Frameworks Thin Films. Journal of the American Chemical Society, 2019, 141, 11947-11953.	13.7	57
10	Contact Problem of Viscoelastic Cylinder Rolling along a Viscoelastic Base with a Viscous Lubricant Layer. Mechanics of Solids, 2019, 54, 289-302.	0.7	0
11	Molecular-Level Insight into CO₂ Adsorption on the Zirconium-Based Metalâ€“Organic Framework, UiO-66: A Combined Spectroscopic and Computational Approach. Journal of Physical Chemistry C, 2019, 123, 13731-13738.	3.1	34
12	Synthesis and Defect Characterization of Phase-Pure Zr-MOFs Based on Meso-tetracarboxyphenylporphyrin. Inorganic Chemistry, 2019, 58, 5145-5153.	4.0	70
13	Geometry and energetics of CO adsorption on hydroxylated UiO-66. Physical Chemistry Chemical Physics, 2019, 21, 5078-5085.	2.8	17
14	Interligand Charge-Transfer Interactions in Electroactive Coordination Frameworks Based on N,Nâ€²-Dicyanoquinonediimine (DCNQI). Inorganic Chemistry, 2018, 57, 9766-9774.	4.0	9
15	A New Class of Metal-Cyclam-Based Zirconium Metalâ€“Organic Frameworks for CO₂ Adsorption and Chemical Fixation. Journal of the American Chemical Society, 2018, 140, 993-1003.	13.7	176
16	Insight into Metalâ€“Organic Framework Reactivity: Chemical Water Oxidation Catalyzed by a [Ru(tpy)(dcbpy)(OH₂)]²⁺â€Modified UiOâ€67. ChemSusChem, 2018, 11, 464-471.	6.8	31
17	Spectroscopic, electronic and computational properties of a mixed tetrachalcogenafulvalene and its charge transfer complex. Journal of Materials Chemistry C, 2018, 6, 1092-1104.	5.5	11
18	Synthesis, characterization, and luminescent properties of two new Zr(IV) metalâ€“organic frameworks based on anthracene derivatives. Canadian Journal of Chemistry, 2018, 96, 875-880.	1.1	7

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19	Numerical Analysis of Lubrication Layer Characteristics in a Supporting Slider Bearing under Reverse Motion. Fluid Dynamics, 2018, 53, S14-S23.	0.9	0
20	Probing charge transfer characteristics in a donorâ€“acceptor metalâ€“organic framework by Raman spectroelectrochemistry and pressure-dependence studies. Physical Chemistry Chemical Physics, 2018, 20, 25772-25779.	2.8	28
21	Insights into CO2 adsorption and chemical fixation properties of VPI-100 metalâ€“organic frameworks. Journal of Materials Chemistry A, 2018, 6, 22195-22203.	10.3	17
22	Characterization of Undercoordinated Zr Defect Sites in UiO-66 with Vibrational Spectroscopy of Adsorbed CO. Journal of Physical Chemistry C, 2018, 122, 14582-14589.	3.1	52
23	Mechanism and Kinetics of Hydrogen Peroxide Decomposition on Platinum Nanocatalysts. ACS Applied Materials & Interfaces, 2018, 10, 21224-21234.	8.0	94
24	Benzene, Toluene, and Xylene Transport through UiO-66: Diffusion Rates, Energetics, and the Role of Hydrogen Bonding. Journal of Physical Chemistry C, 2018, 122, 16060-16069.	3.1	60
25	Study of Electrocatalytic Properties of Metalâ€“Organic Framework PCN-223 for the Oxygen Reduction Reaction. ACS Applied Materials & Interfaces, 2017, 9, 33539-33543.	8.0	143
26	Proton-Coupled Electron Transport in Anthraquinone-Based Zirconium Metalâ€“Organic Frameworks. Inorganic Chemistry, 2017, 56, 13741-13747.	4.0	23
27	Influence of viscoelastic coatings on the contact of lubricated bodies. Russian Engineering Research, 2017, 37, 596-602.	0.6	2
28	Untangling Complex Redox Chemistry in Zeolitic Imidazolate Frameworks Using Fourier Transformed Alternating Current Voltammetry. Analytical Chemistry, 2017, 89, 10181-10187.	6.5	11
29	Guestâ€“Host Complexes of TCNQ and TCNE with Cu₃(1,3,5-benzenetricarboxylate)₂. Journal of Physical Chemistry C, 2017, 121, 26330-26339.	3.1	18
30	Elastohydrodynamic problem for journal sliding bearing under reciprocating motion. Journal of Friction and Wear, 2016, 37, 204-212.	0.5	5
31	Intrinsically conducting metalâ€“organic frameworks. MRS Bulletin, 2016, 41, 858-864.	3.5	104
32	Structural and optical investigations of charge transfer complexes involving the radical anions of TCNQ and F₄TCNQ. CrystEngComm, 2016, 18, 8906-8914.	2.6	34
33	Effects of lubricant viscoelasticity on film thickness in elastohydrodynamic line contacts during start-up. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2016, 230, 769-782.	1.8	3
34	The Electrochemical Transformation of the Zeolitic Imidazolate Framework ZIF-67 in Aqueous Electrolytes. Electrochimica Acta, 2015, 153, 433-438.	5.2	49
35	Magnetic, electrochemical and optical properties of a sulfate-bridged Co(<scp>ii</scp>) imidazole dimer. New Journal of Chemistry, 2014, 38, 5856-5860.	2.8	12
36	Structural and optical investigations of charge transfer complexes involving the F4TCNQ dianion. CrystEngComm, 2014, 16, 5234.	2.6	22

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37	A numerical analysis of the contact of rough viscoelastic bodies in the presence of a layer of viscous lubricant. Prikladnaya Matematika I Mekhanika, 2012, 76, 572-581.	0.4	6
38	Rapid determination of the optical and redox properties of a metalâ€“organic framework via in situ solid state spectroelectrochemistry. Chemical Communications, 2012, 48, 3945.	4.1	111
39	Numerical analysis of viscous elastohydrodynamic point contact under stationary conditions. Journal of Friction and Wear, 2010, 31, 1-10.	0.5	5
40	The contact problem for a viscoelastic layer and rigid cylinder during regular sliding. Journal of Friction and Wear, 2009, 30, 246-257.	0.5	4
41	A numerical analysis of the elastohydrodynamic line contact film formation at motion start-up. Journal of Friction and Wear, 2008, 29, 54-65.	0.5	3
42	Prediction of the lifetime of the elements of the safety and control rods of nuclear reactors. Soviet Atomic Energy, 1987, 62, 20-28.	0.1	1
43	Charge transfer in mixed and segregated stacks of tetrathiafulvalene, tetrathianaphthalene and naphthalene diimide: a structural, spectroscopic and computational study. New Journal of Chemistry, 0, , .	2.8	0