

Vladimir Komanicky

List of Publications by Year in descending order

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85
papers

1,913
citations

516710

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42
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89
all docs

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docs citations

89
times ranked

2940
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural dependence of hydrogen evolution reaction on transition metal catalysts sputtered at different temperatures in alkaline media. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 26987-26999.	7.1	4
2	Study of synergistic effects and compositional dependence of hydrogen evolution reaction on Mo _x Ni _y alloy thin films in alkaline media. <i>Molecular Catalysis</i> , 2022, 528, 112481.	2.0	2
3	Complex optimization of arc melting synthesis for bulk Cr ₂ AlC MAX-phase. <i>Ceramics International</i> , 2021, 47, 7745-7752.	4.8	13
4	Tear fluid biomarkers in major depressive disorder: Potential of spectral methods in biomarker discovery. <i>Journal of Psychiatric Research</i> , 2021, 138, 75-82.	3.1	6
5	Electrochemically Induced Strain Evolution in Pt–Ni Alloy Nanoparticles Observed by Bragg Coherent Diffraction Imaging. <i>Nano Letters</i> , 2021, 21, 5945-5951.	9.1	14
6	IrRe-IrO _x electrocatalysts derived from electrochemically oxidized IrRe thin films for efficient acidic oxygen evolution reaction. <i>Electrochimica Acta</i> , 2021, 398, 139248.	5.2	6
7	Enhancing catalytic activity of rhodium towards methanol electro-oxidation in both acidic and alkaline media by alloying with iron. <i>Electrochimica Acta</i> , 2020, 330, 135178.	5.2	10
8	Fabrication of combinatorial material libraries by flow cell electrodeposition technique. <i>Materials Letters</i> , 2020, 281, 128594.	2.6	2
9	In-situ to ex-situ in-plane structure evolution of stern layers on Pt(111) surface: Surface X-ray scattering studies. <i>Journal of Electroanalytical Chemistry</i> , 2020, 875, 114495.	3.8	4
10	Stern layers on RuO ₂ (100) and (110) in electrolyte: Surface X-ray scattering studies. <i>Journal of Electroanalytical Chemistry</i> , 2020, 875, 114228.	3.8	5
11	Controlling the Transverse Magneto-Optical Kerr Effect in Cr/NiFe Bilayer Thin Films by Changing the Thicknesses of the Cr Layer. <i>Nanomaterials</i> , 2020, 10, 256.	4.1	3
12	Noninvasive diagnostic methods for diabetes mellitus from tear fluid. <i>RSC Advances</i> , 2019, 9, 18050-18059.	3.6	12
13	Screening of electrocatalysts for hydrogen evolution reaction using bipolar electrodes fabricated by composition gradient magnetron sputtering. <i>Journal of Electroanalytical Chemistry</i> , 2019, 854, 113562.	3.8	11
14	Study of the Internal Compositions of Binary Alloy Pd-Rh Nanoparticles by Using Bragg Coherent Diffraction Imaging. <i>Journal of the Korean Physical Society</i> , 2019, 75, 528-533.	0.7	7
15	Deoxyribonucleic acid and chromatin imaging of endometriosis and endometrial carcinoma using atomic force microscopy. <i>Spectroscopy Letters</i> , 2019, 52, 510-519.	1.0	1
16	Evaluation of hydrogen evolution reaction activity of molybdenum nitride thin films on their nitrogen content. <i>Electrochimica Acta</i> , 2019, 315, 9-16.	5.2	45
17	Turning Catalysts on by Light-Induced Stress: When Red Means Go. <i>ChemElectroChem</i> , 2019, 6, 3264-3267.	3.4	2
18	Evaluation of sensitivity of Ge ₉ As ₉ Se ₈₂ and Ge ₁₆ As ₂₄ Se ₆₀ thin films to irradiation with electron beam. <i>Journal of Non-Crystalline Solids</i> , 2019, 505, 37-42.	3.1	4

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19	Layering and Ordering in Electrochemical Double Layers. Journal of Physical Chemistry Letters, 2018, 9, 1265-1271.	4.6	26
20	Analysis of Bowel Diseases from Blood Serum by Autofluorescence and Atomic Force Microscopy Techniques. Open Chemistry, 2018, 16, 238-245.	1.9	3
21	Autofluorescence of Breast Cancer Proteins. Current Metabolomics, 2018, 6, .	0.5	2
22	Spin polarization in Cu ₂ MnSn Heusler alloy produced by melt-spinning. Intermetallics, 2017, 85, 139-143.	3.9	15
23	Magnetic and thermodynamic properties of Cu_2MnSn single crystals. Physical Review B, 2017, 95, .		
24	Study of dependence of electron beam induced surface relief formation on Ge-As-Se thin films on the film elemental composition. Journal of Non-Crystalline Solids, 2017, 456, 7-11.	3.1	9
25	Magnetic and Structural Characterization of Nickel and Iron Based Heusler Ribbons Ni ₂ FeZ (Z=In, Tj). Journal of Applied Physics, 2017, 121, 074314.	0.5	2
26	Superconductivity of Niobium Thin Films in the BiOCl/Nb Heterostructures. Acta Physica Polonica A, 2017, 131, 1030-1032.	0.5	0
27	Growth of Pt-Ni Nanoparticles of Different Composition using Electrodeposition and Characterization of Their Magnetic Properties. Acta Physica Polonica A, 2017, 131, 839-841.	0.5	1
28	Study of Stability of Ultrathin Pt Films on Titanium Nitride, Highly Oriented Pyrolytic Graphite and Sigradur G Glassy Carbon Substrates: The Role of Substrate Type and Catalyst Loading on the Degradation Mechanism. Journal of the Electrochemical Society, 2016, 163, H840-H847.	2.9	1
29	Influence of the reduced dimensionality on the thermodynamical and electrical properties of photosensitive BiOX (X=Cl, Br, and I) semiconductors. Applied Physics Letters, 2016, 109, .	3.3	14
30	Interaction of Molecular Oxygen with a Hexagonally Reconstructed Au(001) Surface. Journal of Physical Chemistry C, 2016, 120, 23001-23008.	3.1	0
31	Surface patterning of Ge _{1-x} As _x Se thin films by electric charge accumulation. Thin Solid Films, 2016, 616, 86-94.	1.8	13
32	Addition of molybdenum into amorphous glass-coated microwires usable as temperature sensors in biomedical applications. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 377-383.	1.8	16
33	X-ray Crystal Truncation Rod Studies of Surface Oxidation and Reduction on Pt(111). Journal of Physical Chemistry C, 2016, 120, 16174-16178.	3.1	43
34	Spectral study of modified natural clinoptilolite with pharmacologically active escin and horse chestnut extract. Spectroscopy Letters, 2016, 49, 63-72.	1.0	5
35	Monitoring of Heart Ischemia in Blood Serum. Spectral Analysis Review, 2016, 04, 11-22.	0.2	6
36	Charge-induced equilibrium dynamics and structure at the Ag(001)-electrolyte interface. Physical Chemistry Chemical Physics, 2015, 17, 16682-16687.	2.8	12

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37	Fabrication of meso- and nano-scale structures on surfaces of chalcogenide semiconductors by surface hydrodynamic interference patterning. <i>Materials Research Express</i> , 2015, 2, 105201.	1.6	8
38	Structural and Magnetic Characterization of Fe ²⁺ Mn ²⁺ Al ³⁺ Ni Pseudo-Heusler Alloy. <i>IEEE Transactions on Magnetics</i> , 2015, 51, 1-3.	2.1	9
39	New Approaches in Monitoring Venom of Genus <i>Dendroaspis</i> . <i>Spectroscopy Letters</i> , 2015, 48, 462-472.	1.0	2
40	Ptychographic x-ray imaging of surfaces on crystal truncation rod. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	16
41	Fluorescent Profiling of Venom-Selected Cobra Species. <i>Spectroscopy Letters</i> , 2014, 47, 1-5.	1.0	10
42	Specific Heat Study of Superconductivity in Cu _{0.061} TiSe ₂ . <i>Acta Physica Polonica A</i> , 2014, 126, 322-323.	0.5	1
43	Local Magnetometry of Cu _{0.064} TiSe ₂ . <i>Acta Physica Polonica A</i> , 2014, 126, 370-371.	0.5	2
44	Anizotropy of Photoconductivity in BiOCl (X=Cl, Br, I) Single Crystals. <i>Acta Physica Polonica A</i> , 2014, 126, 274-275.	0.5	0
45	Thermopower and Surface Magnetic Characterization of Ni Thin Layers. <i>Acta Physica Polonica A</i> , 2014, 126, 204-205.	0.5	0
46	Application of Superconductor/Photosemiconductor Contact Structures in Electronics. <i>Acta Physica Polonica A</i> , 2014, 126, 362-363.	0.5	1
47	Study of Niobium Thin Films under Pressure. <i>Acta Physica Polonica A</i> , 2014, 126, 346-347.	0.5	3
48	Electron-beam induced surface relief shape inversion in amorphous Ge ₄ As ₄ Se ₉₂ thin films. <i>Thin Solid Films</i> , 2014, 571, 175-179.	1.8	4
49	Growth of arrays of oriented epitaxial platinum nanoparticles with controlled size and shape by natural colloidal lithography. <i>Nanoscale Research Letters</i> , 2014, 9, 336.	5.7	1
50	Influence of hydrostatic pressure on superconducting properties of niobium thin film. <i>Thin Solid Films</i> , 2014, 556, 470-474.	1.8	11
51	Electrocatalytic activity of surface oxides on platinum nanofacets and surfaces. <i>Electrochimica Acta</i> , 2013, 109, 440-446.	5.2	3
52	Epitaxial oxide bilayer on Pt (001) nanofacets. <i>Journal of Chemical Physics</i> , 2012, 136, 044704.	3.0	4
53	Dynamics of the Au (001) surface in electrolytes: <i>In situ</i> coherent x-ray scattering. <i>Physical Review B</i> , 2012, 86, .	3.2	13
54	Coherent x-ray scattering experiments of Pt(001) surface dynamics near a roughening transition. <i>Physical Review B</i> , 2012, 86, .	3.2	7

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55	The Spectrofluorometric Monitoring of Water Purification by Natural Alternatives. <i>Spectroscopy Letters</i> , 2012, 45, 447-451.	1.0	4
56	Study of electrode surface dynamics using coherent surface X-ray scattering. <i>Electrochimica Acta</i> , 2012, 82, 570-575.	5.2	13
57	Effects of Li ⁺ , K ⁺ , and Ba ²⁺ Cations on the ORR at Model and High Surface Area Pt and Au Surfaces in Alkaline Solutions. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2733-2736.	4.6	142
58	Design and Synthesis of Bimetallic Electrocatalyst with Multilayered Pt-Skin Surfaces. <i>Journal of the American Chemical Society</i> , 2011, 133, 14396-14403.	13.7	541
59	Persistent oscillations of x-ray speckles: Pt (001) step flow. <i>Applied Physics Letters</i> , 2011, 99, 121910.	3.3	15
60	In Situ Coherent X-ray Scattering and Scanning Tunneling Microscopy Studies of Hexagonally Reconstructed Au(001) in Electrolytes. <i>ECS Transactions</i> , 2011, 35, 71-81.	0.5	4
61	Fabrication and characterization of platinum nanoparticle arrays of controlled size, shape and orientation. <i>Electrochimica Acta</i> , 2010, 55, 7934-7938.	5.2	14
62	Enhanced Superconductivity in Nanosized Tips of Scanning Tunnelling Microscope. <i>Acta Physica Polonica A</i> , 2010, 118, 1038-1039.	0.5	10
63	Surface X-Ray Speckles: Coherent Surface Diffraction from Au(001). <i>Physical Review Letters</i> , 2009, 103, 165501.	7.8	41
64	Shape-Dependent Activity of Platinum Array Catalyst. <i>Journal of the American Chemical Society</i> , 2009, 131, 5732-5733.	13.7	134
65	Unique Activity of Platinum Adislands in the CO Electrooxidation Reaction. <i>Journal of the American Chemical Society</i> , 2008, 130, 15332-15339.	13.7	142
66	CO-Induced Lifting of Au(001) Surface Reconstruction. <i>Journal of Physical Chemistry C</i> , 2008, 112, 2231-2234.	3.1	18
67	High-density electrosorbed carbon monoxide monolayers on Pt(111) under atmospheric pressure. <i>Physical Review B</i> , 2007, 75, .	3.2	14
68	In Situ Synchrotron X-ray Spectroscopy of Ruthenium Nanoparticles Modified with Selenium for an Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16889-16894.	3.1	24
69	Shape of Platinum Nanoparticles Supported on SrTiO ₃ : Experiment and Theory. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14782-14789.	3.1	42
70	Electrosorbed carbon monoxide monolayers on Pt(111). <i>Electrochimica Acta</i> , 2007, 52, 5749-5758.	5.2	17
71	Fabrication of platinum nano-array model catalysts. , 2006, 6340, 274.		1
72	Resonance anomalous surface X-ray scattering. <i>Radiation Physics and Chemistry</i> , 2006, 75, 1651-1660.	2.8	19

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73	A detailed study of gold single crystal growth in a silica gel. <i>Journal of Crystal Growth</i> , 2006, 290, 615-620.	1.5	6
74	Polarization-dependent resonant anomalous surface X-ray scattering of CO/Pt(111). <i>Europhysics Letters</i> , 2006, 74, 1032-1038.	2.0	16
75	Stability and Dissolution of Platinum Surfaces in Perchloric Acid. <i>Journal of the Electrochemical Society</i> , 2006, 153, B446.	2.9	141
76	Stability and Dissolution of the Platinum Single Crystal Surfaces in Perchloric Acid. <i>ECS Transactions</i> , 2006, 1, 167-184.	0.5	3
77	In-situ Synchrotron X-ray Spectroscopy of Ruthenium Nanoparticles Modified with Selenium for Oxygen Reduction Reaction. <i>ECS Transactions</i> , 2006, 3, 161-170.	0.5	3
78	Characterization of off-axis MgB2 epitaxial thin films for planar junctions. <i>Applied Physics Letters</i> , 2005, 87, 242506.	3.3	14
79	Investigation of Oxygen Reduction Reaction Kinetics at (111) $\hat{\wedge}$ (100) Nanofaceted Platinum Surfaces in Acidic Media. <i>Journal of Physical Chemistry B</i> , 2005, 109, 23550-23557.	2.6	51
80	Nanofaceted Platinum Surfaces: A New Model System for Nanoparticle Catalysts. <i>Journal of Physical Chemistry B</i> , 2005, 109, 23543-23549.	2.6	26
81	Fabrication of gold and platinum single crystal ultramicroelectrodes. <i>Electrochimica Acta</i> , 2004, 49, 1185-1194.	5.2	11
82	Fabrication of an annealable platinum (111) single crystal ultramicroelectrode. <i>Journal of Electroanalytical Chemistry</i> , 2003, 556, 109-115.	3.8	5
83	Fabrication and AFM Investigation of the Temperature-Dependent Surface Morphology of Au (100) Single Crystal Ultramicroelectrodes. <i>Analytical Chemistry</i> , 2003, 75, 4534-4540.	6.5	5
84	Fabrication and Properties of Gold Single-Crystal Ultramicroelectrodes. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 563-566.	13.8	13
85	Effect of Current Annealing on Domain Wall Dynamics in Bistable FeCoMoB Microwires. <i>Solid State Phenomena</i> , 0, 233-234, 281-284.	0.3	4