Vladimir Komanicky

List of Publications by Year
in descending order

85	1,913	516710 16	265206 42
papers	citations	h-index	g-index

89	89	89	2940
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design and Synthesis of Bimetallic Electrocatalyst with Multilayered Pt-Skin Surfaces. Journal of the American Chemical Society, 2011, 133, 14396-14403.	13.7	541
2	Unique Activity of Platinum Adislands in the CO Electrooxidation Reaction. Journal of the American Chemical Society, 2008, 130, 15332-15339.	13.7	142
3	Effects of Li⁺, K⁺, and Ba²⁺ Cations on the ORR at Model and High Surface Area Pt and Au Surfaces in Alkaline Solutions. Journal of Physical Chemistry Letters, 2011, 2, 2733-2736.	4.6	142
4	Stability and Dissolution of Platinum Surfaces in Perchloric Acid. Journal of the Electrochemical Society, 2006, 153, B446.	2.9	141
5	Shape-Dependent Activity of Platinum Array Catalyst. Journal of the American Chemical Society, 2009, 131, 5732-5733.	13.7	134
6	Investigation of Oxygen Reduction Reaction Kinetics at (111)â^'(100) Nanofaceted Platinum Surfaces in Acidic Media. Journal of Physical Chemistry B, 2005, 109, 23550-23557.	2.6	51
7	Evaluation of hydrogen evolution reaction activity of molybdenum nitride thin films on their nitrogen content. Electrochimica Acta, 2019, 315, 9-16.	5.2	45
8	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
9	Shape of Platinum Nanoparticles Supported on SrTiO₃:â€‰ Experiment and Theory. Journal of Physical Chemistry C, 2007, 111, 14782-14789.	3.1	42
10	Surface X-Ray Speckles: Coherent Surface Diffraction from Au(001). Physical Review Letters, 2009, 103, 165501.	7.8	41
11	Nanofaceted Platinum Surfaces:â€‰ A New Model System for Nanoparticle Catalysts. Journal of Physical Chemistry B, 2005, 109, 23543-23549.	2.6	26
12	Layering and Ordering in Electrochemical Double Layers. Journal of Physical Chemistry Letters, 2018, 9, 1265-1271.	4.6	26
13	In Situ Synchrotron X-ray Spectroscopy of Ruthenium Nanoparticles Modified with Selenium for an Oxygen Reduction Reaction. Journal of Physical Chemistry C, 2007, 111, 16889-16894.	3.1	24
14	Resonance anomalous surface X-ray scattering. Radiation Physics and Chemistry, 2006, 75, 1651-1660.	2.8	19
15	CO-Induced Lifting of Au(001) Surface Reconstruction. Journal of Physical Chemistry C, 2008, 112, 2231-2234.	3.1	18
16	Electrosorbed carbon monoxide monolayers on Pt(111). Electrochimica Acta, 2007, 52, 5749-5758.	5.2	17
17	Polarization-dependent resonant anomalous surface X-ray scattering of CO/Pt(111). Europhysics Letters, 2006, 74, 1032-1038.	2.0	16
18	Ptychographic x-ray imaging of surfaces on crystal truncation rod. Applied Physics Letters, 2015, 106, .	3.3	16

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19	Addition of molybdenum into amorphous glassâ€coated microwires usable as temperature sensors in biomedical applications. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 377-383.	1.8	16
20	Persistent oscillations of x-ray speckles: Pt (001) step flow. Applied Physics Letters, 2011, 99, 121910.	3.3	15
21	Spin polarization in Cu2MnSn Heusler alloy produced by melt-spinning. Intermetallics, 2017, 85, 139-143.	3.9	15
22	Characterization of off-axis MgB2 epitaxial thin films for planar junctions. Applied Physics Letters, 2005, 87, 242506.	3.3	14
23	High-density electrosorbed carbon monoxide monolayers on Pt(111) under atmospheric pressure. Physical Review B, 2007, 75, .	3.2	14
24	Fabrication and characterization of platinum nanoparticle arrays of controlled size, shape and orientation. Electrochimica Acta, 2010, 55, 7934-7938.	5.2	14
25	Influence of the reduced dimensionality on the thermodynamical and electrical properties of photosensitive BiOX (Xâ€‰=â€‰Cl, Br, and I) semiconductors. Applied Physics Letters, 2016, 109, .	3.3	14
26	Electrochemically Induced Strain Evolution in Ptâ€“Ni Alloy Nanoparticles Observed by Bragg Coherent Diffraction Imaging. Nano Letters, 2021, 21, 5945-5951.	9.1	14
27	Fabrication and Properties of Gold Single-Crystal Ultramicroelectrodes. Angewandte Chemie - International Edition, 2001, 40, 563-566.	13.8	13
28	Dynamics of the Au (001) surface in electrolytes:In situcoherent x-ray scattering. Physical Review B, 2012, 86, .	3.2	13
29	Study of electrode surface dynamics using coherent surface X-ray scattering. Electrochimica Acta, 2012, 82, 570-575.	5.2	13
30	Surface pattering of Geâ€“Asâ€“Se thin films by electric charge accumulation. Thin Solid Films, 2016, 616, 86-94.	1.8	13
31	Complex optimization of arc melting synthesis for bulk Cr2AlC MAX-phase. Ceramics International, 2021, 47, 7745-7752.	4.8	13
32	Charge-induced equilibrium dynamics and structure at the Ag(001)â€“electrolyte interface. Physical Chemistry Chemical Physics, 2015, 17, 16682-16687.	2.8	12
33	Noninvasive diagnostic methods for diabetes mellitus from tear fluid. RSC Advances, 2019, 9, 18050-18059.	3.6	12
34	Fabrication of gold and platinum single crystal ultramicroelectrodes. Electrochimica Acta, 2004, 49, 1185-1194.	5.2	11
35	Influence of hydrostatic pressure on superconducting properties of niobium thin film. Thin Solid Films, 2014, 556, 470-474.	1.8	11
36	Screening of electrocatalysts for hydrogen evolution reaction using bipolar electrodes fabricated by composition gradient magnetron sputtering. Journal of Electroanalytical Chemistry, 2019, 854, 113562.	3.8	11

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37	Fluorescent Profiling of Venom-Selected Cobra Species. Spectroscopy Letters, 2014, 47, 1-5.	1.0	10
38	Enhancing catalytic activity of rhodium towards methanol electro-oxidation in both acidic and alkaline media by alloying with iron. Electrochimica Acta, 2020, 330, 135178.	5.2	10
39	Enhanced Superconductivity in Nanosized Tips of Scanning Tunnelling Microscope. Acta Physica Polonica A, 2010, 118, 1038-1039.	0.5	10
40	Structural and Magnetic Characterization of Feâ€“Mnâ€“Alâ€“Ni Pseudo-Heusler Alloy. IEEE Transactions on Magnetics, 2015, 51, 1-3.	2.1	9
41	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
42	Fabrication of meso- and nano-scale structures on surfaces of chalcogenide semiconductors by surface hydrodynamic interference patterning. Materials Research Express, 2015, 2, 105201.	1.6	8
43	Coherent x-ray scattering experiments of Pt(001) surface dynamics near a roughening transition. Physical Review B, 2012, 86, .	3.2	7
44	Study of the Internal Compositions of Binary Alloy Pd-Rh Nanoparticles by Using Bragg Coherent Diffraction Imaging. Journal of the Korean Physical Society, 2019, 75, 528-533.	0.7	7
45	A detailed study of gold single crystal growth in a silica gel. Journal of Crystal Growth, 2006, 290, 615-620.	1.5	6
46	Magnetic and thermodynamic properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:m single crystals. Physical Review B, 2017, 95, .	3.2	6
47	Tear fluid biomarkers in major depressive disorder: Potential of spectral methods in biomarker discovery. Journal of Psychiatric Research, 2021, 138, 75-82.	3.1	6
48	IrRe-IrOx electrocatalysts derived from electrochemically oxidized IrRe thin films for efficient acidic oxygen evolution reaction. Electrochimica Acta, 2021, 398, 139248.	5.2	6
49	Monitoring of Heart Ischemia in Blood Serum. Spectral Analysis Review, 2016, 04, 11-22.	0.2	6
50	Fabrication of an annealable platinum (111) single crystal ultramicroelectrode. Journal of Electroanalytical Chemistry, 2003, 556, 109-115.	3.8	5
51	Fabrication and AFM Investigation of the Temperature-Dependent Surface Morphology of Au (100) Single Crystal Ultramicroelectrodes. Analytical Chemistry, 2003, 75, 4534-4540.	6.5	5
52	Spectral study of modified natural clinoptilolite with pharmacologically active escin and horse chestnut extract. Spectroscopy Letters, 2016, 49, 63-72.	1.0	5
53	Stern layers on RuO2 (100) and (110) in electrolyte: Surface X-ray scattering studies. Journal of Electroanalytical Chemistry, 2020, 875, 114228.	3.8	5
54	In Situ Coherent X-ray Scattering and Scanning Tunneling Microscopy Studies of Hexagonally Reconstructed Au(001) in Electrolytes. ECS Transactions, 2011, 35, 71-81.	0.5	4

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55	Epitaxial oxide bilayer on Pt (001) nanofacets. Journal of Chemical Physics, 2012, 136, 044704.	3.0	4
56	The Spectrofluorometric Monitoring of Water Purification by Natural Alternatives. Spectroscopy Letters, 2012, 45, 447-451.	1.0	4
57	Electron-beam induced surface relief shape inversion in amorphous Ge 4 As 4 Se 92 thin films. Thin Solid Films, 2014, 571, 175-179.	1.8	4
58	Effect of Current Annealing on Domain Wall Dynamics in Bistable FeCoMoB Microwires. Solid State Phenomena, 0, 233-234, 281-284.	0.3	4
59	Evaluation of sensitivity of Ge9As9Se82 and Ge16As24Se60 thin films to irradiation with electron beam. Journal of Non-Crystalline Solids, 2019, 505, 37-42.	3.1	4
60	In-situ to ex-situ in-plane structure evolution of stern layers on Pt(111) surface: Surface X-ray scattering studies. Journal of Electroanalytical Chemistry, 2020, 875, 114495.	3.8	4
61	Structural dependence of hydrogen evolution reaction on transition metal catalysts sputtered at different temperatures in alkaline media. International Journal of Hydrogen Energy, 2022, 47, 26987-26999.	7.1	4
62	Stability and Dissolution of the Platinum Single Crystal Surfaces in Perchloric Acid. ECS Transactions, 2006, 1, 167-184.	0.5	3
63	In-situ Synchrotron X-ray Spectroscopy of Ruthenium Nanoparticles Modified with Selenium for Oxygen Reduction Reaction. ECS Transactions, 2006, 3, 161-170.	0.5	3
64	Electrocatalytic activity of surface oxides on platinum nanofacets and surfaces. Electrochimica Acta, 2013, 109, 440-446.	5.2	3
65	Study of Niobium Thin Films under Pressure. Acta Physica Polonica A, 2014, 126, 346-347.	0.5	3
66	Analysis of Bowel Diseases from Blood Serum by Autofluorescence and Atomic Force Microscopy Techniques. Open Chemistry, 2018, 16, 238-245.	1.9	3
67	Controlling the Transverse Magneto-Optical Kerr Effect in Cr/NiFe Bilayer Thin Films by Changing the Thicknesses of the Cr Layer. Nanomaterials, 2020, 10, 256.	4.1	3
68	Local Magnetometry of Cu_{0.064}TiSe_{2}. Acta Physica Polonica A, 2014, 126, 370-371.	0.5	2
69	New Approaches in Monitoring Venom of GenusDendroaspis. Spectroscopy Letters, 2015, 48, 462-472.	1.0	2
70	Autofluorescence of Breast Cancer Proteins. Current Metabolomics, 2018, 6, .	0.5	2
71	Turning Catalysts on by Lightâ€Induced Stress: When Red Means Go. ChemElectroChem, 2019, 6, 3264-3267.	3.4	2
72	Fabrication of combinatorial material libraries by flow cell electrodeposition technique. Materials Letters, 2020, 281, 128594.	2.6	2

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73	Magnetic and Structural Characterization of Nickel and Iron Based Heusler Ribbons Ni_2FeZ (Z~=~In,) Tj ETQq1 1 0.784314 rgBT /Ov	0.5	2
74	Study of synergistic effects and compositional dependence of hydrogen evolution reaction on MoxNiy alloy thin films in alkaline media. Molecular Catalysis, 2022, 528, 112481.	2.0	2
75	Fabrication of platinum nano-array model catalysts. , 2006, 6340, 274.		1
76	Specific Heat Study of Superconductivity in Cu_{0.061}TiSe_{2}. Acta Physica Polonica A, 2014, 126, 322-323.	0.5	1
77	Application of Superconductor/Photosemiconductor Contact Structures in Electronics. Acta Physica Polonica A, 2014, 126, 362-363.	0.5	1
78	Growth of arrays of oriented epitaxial platinum nanoparticles with controlled size and shape by natural colloidal lithography. Nanoscale Research Letters, 2014, 9, 336.	5.7	1
79	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
80	Deoxyribonucleic acid and chromatin imaging of endometriosis and endometrial carcinoma using atomic force microscopy. Spectroscopy Letters, 2019, 52, 510-519.	1.0	1
81	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
82	Anizotropy of Photoconductivity in BiOCl (X=Cl, Br, I) Single Crystals. Acta Physica Polonica A, 2014, 126, 274-275.	0.5	0
83	Thermopower and Surface Magnetic Characterization of Ni Thin Layers. Acta Physica Polonica A, 2014, 126, 204-205.	0.5	0
84	Interaction of Molecular Oxygen with a Hexagonally Reconstructed Au(001) Surface. Journal of Physical Chemistry C, 2016, 120, 23001-23008.	3.1	0
85	Superconductivity of Niobium Thin Films in the BiOCl/Nb Heterostructures. Acta Physica Polonica A, 2017, 131, 1030-1032.	0.5	0