

Milivoj Plodinec

List of Publications by Year in descending order

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42
papers

1,372
citations

471061

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344852

36
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48
all docs

48
docs citations

48
times ranked

2476
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct Observation of Graphene Growth and Associated Copper Substrate Dynamics by <i>in Situ</i> Scanning Electron Microscopy. ACS Nano, 2015, 9, 1506-1519.	7.3	187
2	Efficient epoxidation over dinuclear sites in titanium silicalite-1. Nature, 2020, 586, 708-713.	13.7	158
3	Imaging electrochemically synthesized Cu ₂ O cubes and their morphological evolution under conditions relevant to CO ₂ electroreduction. Nature Communications, 2020, 11, 3489.	5.8	133
4	The Oxidation of Platinum under Wet Conditions Observed by Electrochemical X-ray Photoelectron Spectroscopy. Journal of the American Chemical Society, 2019, 141, 6537-6544.	6.6	86
5	High temperature Raman spectroscopy of titanate nanotubes. Journal of Molecular Structure, 2009, 924-926, 183-191.	1.8	66
6	Temperature-dependent Raman spectroscopy of BaTiO ₃ nanorods synthesized by using a template-assisted sol-gel procedure. Journal of Raman Spectroscopy, 2013, 44, 412-420.	1.2	63
7	Surface Electron-Hole Rich Species Active in the Electrocatalytic Water Oxidation. Journal of the American Chemical Society, 2021, 143, 12524-12534.	6.6	62
8	Black TiO ₂ nanotube arrays decorated with Ag nanoparticles for enhanced visible-light photocatalytic oxidation of salicylic acid. Journal of Alloys and Compounds, 2019, 776, 883-896.	2.8	60
9	Electrocatalytic Water Oxidation at Quinone-on-Carbon: A Model System Study. Journal of the American Chemical Society, 2018, 140, 14717-14724.	6.6	48
10	In Situ X-ray Spectroscopy of the Electrochemical Development of Iridium Nanoparticles in Confined Electrolyte. Journal of Physical Chemistry C, 2019, 123, 9146-9152.	1.5	46
11	Insights into Chemical Dynamics and Their Impact on the Reactivity of Pt Nanoparticles during CO Oxidation by Operando TEM. ACS Catalysis, 2020, 10, 3183-3193.	5.5	44
12	The effect of different amino acids on spontaneous precipitation of calcium carbonate polymorphs. Journal of Crystal Growth, 2018, 486, 71-81.	0.7	42
13	Supported Ag Nanoparticles and Clusters for CO Oxidation: Size Effects and Influence of the Silver-Oxygen Interactions. ACS Applied Nano Materials, 2019, 2, 2909-2920.	2.4	40
14	Electrochemically active Ir NPs on graphene for OER in acidic aqueous electrolyte investigated by in situ and ex situ spectroscopies. Surface Science, 2019, 681, 1-8.	0.8	33
15	High-temperature hydrogenation of pure and silver-decorated titanate nanotubes to increase their solar absorbance for photocatalytic applications. Journal of Alloys and Compounds, 2014, 591, 147-155.	2.8	32
16	In situ observation of oscillatory redox dynamics of copper. Nature Communications, 2020, 11, 3554.	5.8	27
17	Large-scale transfer and characterization of macroscopic periodically nano-rippled graphene. Carbon, 2016, 96, 243-249.	5.4	19
18	Tuning the Rh-FeO _x Interface in Ethanol Synthesis through Formation Phase Studies at High Pressures of Synthesis Gas. ACS Catalysis, 2021, 11, 4047-4060.	5.5	17

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19	An Experimental and Theoretical Approach to Understanding the Surface Properties of One-Dimensional TiO ₂ Nanomaterials. Journal of Physical Chemistry C, 2015, 119, 19729-19742.	1.5	16
20	How similar are amorphous calcium carbonate and calcium phosphate? A comparative study of amorphous phase formation conditions. CrystEngComm, 2018, 20, 35-50.	1.3	14
21	Mechanical properties of zirconia ceramics biomimetically coated with calcium deficient hydroxyapatite. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 111, 104006.	1.5	14
22	Quo Vadis Micro-Electro-Mechanical Systems for the Study of Heterogeneous Catalysts Inside the Electron Microscope?. Topics in Catalysis, 2020, 63, 1623-1643.	1.3	14
23	Giant persistent photoconductivity in BaTiO ₃ /TiO ₂ heterostructures. Applied Physics Letters, 2014, 105, 152101.	1.5	13
24	Study of thermal stability of (3-aminopropyl)trimethoxy silane-grafted titanate nanotubes for application as nanofillers in polymers. Nanotechnology, 2014, 25, 435601.	1.3	13
25	<i>In Situ</i> Atomic-Scale Observation of Surface-Tension-Induced Structural Transformation of Ag-NiP Core-Shell Nanocrystals. ACS Nano, 2018, 12, 7197-7205.	7.3	13
26	Tailoring anatase nanotubes for the photovoltaic device by the anodization process on behalf of microstructural features of titanium thin film. Solar Energy Materials and Solar Cells, 2017, 168, 136-145.	3.0	12
27	Versatile Homebuilt Gas Feed and Analysis System for <i>Operando</i> TEM of Catalysts at Work. Microscopy and Microanalysis, 2020, 26, 220-228.	0.2	12
28	The mechanochemical stability of hydrogen titanate nanostructures. Journal of Alloys and Compounds, 2010, 499, 113-120.	2.8	10
29	Visualizing the importance of oxide-metal phase transitions in the production of synthesis gas over Ni catalysts. Journal of Energy Chemistry, 2020, 50, 178-186.	7.1	10
30	ZnO@TiO ₂ Core Shell Nanorod Arrays with Tailored Structural, Electrical, and Optical Properties for Photovoltaic Application. Molecules, 2019, 24, 3965.	1.7	9
31	Nanocatalysts Unravel the Selective State of Ag. ChemCatChem, 2020, 12, 2977-2988.	1.8	9
32	Site specific and localized structural displacements in open structured multimetallic oxides. Nanoscale, 2020, 12, 6759-6766.	2.8	8
33	Synthesis and Characterization of Ag-Delafossites Ag _B O ₂ (B: Al, Ga, In) from a Rapid Hydrothermal Process. European Journal of Inorganic Chemistry, 2019, 2019, 2333-2345.	1.0	7
34	Compositional Decoupling of Bulk and Surface in Open-Structured Complex Mixed Oxides. Journal of Physical Chemistry C, 2020, 124, 23069-23077.	1.5	7
35	Influence of RF excitation during pulsed laser deposition in oxygen atmosphere on the structural properties and luminescence of nanocrystalline ZnO:Al thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	0.9	6
36	The utilization of modified alkoxide as a precursor for solvothermal synthesis of nanocrystalline titania. Materials Chemistry and Physics, 2017, 196, 194-204.	2.0	5

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37	Multimodal Operando Electron Microscopy Approach to Study Pt Catalyst During CO Oxidation Reaction. <i>Microscopy and Microanalysis</i> , 2019, 25, 1448-1449.	0.2	4
38	Enhanced Visible-Light Driven Photocatalytic Activity of Ag@TiO ₂ Photocatalyst Prepared in Chitosan Matrix. <i>Catalysts</i> , 2020, 10, 763.	1.6	3
39	SnBrPâ€A SnIPâ€type representative in the Snâ~Brâ~P system. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2022, 648, .	0.6	3
40	Synthesis and Characterization of Agâ€Delafossites Ag<i>B</i>O₂ (<i>B</i>: Al, Ga, In) from a Rapid Hydrothermal Process. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 2319-2319.	1.0	1
41	Modelling of simultaneously obtained small and wide angle synchrotron-radiation scattering depth profiles of ordered titania nanotube thin films. <i>Materials Chemistry and Physics</i> , 2020, 240, 122155.	2.0	1
42	Direct Insight into the Reactivity of Pt Nanoparticles in CO Oxidation by Operando TEM and the Impact of Electron Dose Rate on Their Coarsening. <i>Microscopy and Microanalysis</i> , 2020, 26, 1868-1871.	0.2	1