## Josef Myslivecek

## List of Publications by Year in descending order

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304701 175241 2,740 59 22 52 citations h-index g-index papers 61 61 61 3845 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Counting electrons on supported nanoparticles. Nature Materials, 2016, 15, 284-288.	27.5	469
2	Creating single-atom Pt-ceria catalysts by surface step decoration. Nature Communications, 2016, 7, 10801.	12.8	388
3	Maximum Nobleâ€Metal Efficiency in Catalytic Materials: Atomically Dispersed Surface Platinum. Angewandte Chemie - International Edition, 2014, 53, 10525-10530.	13.8	384
4	A versatile fabrication method for cluster superlattices. New Journal of Physics, 2009, 11, 103045.	2.9	164
5	Epitaxial Cubic Ce <sub>2</sub> O <sub>3</sub> Films via Ce–CeO <sub>2</sub> Interfacial Reaction. Journal of Physical Chemistry Letters, 2013, 4, 866-871.	4.6	99
6	Adsorption sites, metal-support interactions, and oxygen spillover identified by vibrational spectroscopy of adsorbed CO: A model study on Pt/ceria catalysts. Journal of Catalysis, 2012, 289, 118-126.	6.2	88
7	Water interaction with CeO2(1 1 1)/Cu(1 1 1) model catalyst surface. Catalysis Today, 2012, 181, 124-132.	4.4	85
8	Ordered Phases of Reduced Ceria As Epitaxial Films on Cu(111). Journal of Physical Chemistry C, 2014, 118, 357-365.	3.1	83
9	Adjusting Morphology and Surface Reduction of CeO2(111) Thin Films on $Cu(111)$ . Journal of Physical Chemistry C, 2011, 115, 7496-7503.	3.1	82
10	Structure of the adatom electron band of the Si(111) $\hat{a}$ 7 $\tilde{A}$ —7 surface. Physical Review B, 2006, 73, .	3.2	79
11	On the microscopic origin of the kinetic step bunching instability on vicinal Si(). Surface Science, 2002, 520, 193-206.	1.9	77
12	Unconventional features of Ag epitaxy on the Si(111)7 $ ilde{A}$ —7 surface. Physical Review B, 2001, 63, .	3.2	53
13	Bulk Hydroxylation and Effective Water Splitting by Highly Reduced Cerium Oxide: The Role of O Vacancy Coordination. ACS Catalysis, 2018, 8, 4354-4363.	11.2	52
14	Distinct Physicochemical Properties of the First Ceria Monolayer on Cu(111). Journal of Physical Chemistry C, 2012, 116, 6677-6684.	3.1	40
15	Adsorption and diffusion of Ag atoms on Si(1 $1$ 1)-(7 $\tilde{A}$ — 7) surface. Surface Science, 2001, 482-485, 386-390.	1.9	35
16	Anode Material for Hydrogen Polymer Membrane Fuel Cell: Pt–CeO[sub 2] RF-Sputtered Thin Films. Journal of the Electrochemical Society, 2009, 156, B938.	2.9	34
17	Transition from 2D to 3D growth during Ag/Si(111)-(7 $ ilde{A}$ —7) heteroepitaxy. Surface Science, 2001, 482-485, 797-801.	1.9	31
18	Modification of the conductance of single fullerene molecules by endohedral doping. Applied Physics Letters, 2009, 95, 133118.	3.3	24

#	Article	IF	CITATIONS
19	Scaling of submonolayer island sizes in surfactant-mediated epitaxy of semiconductors. Physical Review B, 2004, 70, .	3.2	23
20	Optimized Ge nanowire arrays on Si by modified surfactant mediated epitaxy. Physical Review B, 2007, 75, .	3.2	23
21	Nanoscale charge transport measurements using a double-tip scanning tunneling microscope. Journal of Applied Physics, 2008, 104, 094307.	2.5	23
22	Magic islands and barriers to attachment: ASi/Si(111)7×7growth model. Physical Review B, 1999, 60, 13869-13873.	3.2	22
23	On the origin of the kinetic growth instability of homoepitaxy on Si(001). Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 89, 410-414.	3.5	22
24	Growth mechanisms in $Ge/Si(111)$ heteroepitaxy with and without Bi as a surfactant. Physical Review B, 2004, 69, .	3.2	22
25	CO and methanol adsorption on (2 × 1)Pt(110) and ionâ€eroded Pt(111) model catalysts. Surface and Interface Analysis, 2011, 43, 1325-1331.	1.8	21
26	Ultimate dispersion of metallic and ionic platinum on ceria. Journal of Materials Chemistry A, 2019, 7, 13019-13028.	10.3	21
27	Cobalt Oxide-Supported Pt Electrocatalysts: Intimate Correlation between Particle Size, Electronic Metal–Support Interaction and Stability. Journal of Physical Chemistry Letters, 2020, 11, 8365-8371.	4.6	21
28	Comment on "Ordered Phases of Reduced Ceria as Epitaxial Films on Cu(111)― Journal of Physical Chemistry C, 2014, 118, 5058-5059.	3.1	20
29	Charge transfer and spillover phenomena in ceria-supported iridium catalysts: A model study. Journal of Chemical Physics, 2019, 151, 204703.	3.0	20
30	Adatom and Nanoparticle Dynamics on Single-Atom Catalyst Substrates. ACS Catalysis, 2022, 12, 4859-4871.	11.2	19
31	STM study of nucleation of Ag on Si(111)-(7×7) at submonolayer coverage. Surface Science, 2000, 454-456, 847-850.	1.9	18
32	Polarity driven morphology of CeO2(100) islands on Cu(111). Applied Surface Science, 2013, 285, 766-771.	6.1	18
33	Atomic and Electronic Structure of V–Rh(110) Near-Surface Alloy. Journal of Physical Chemistry C, 2013, 117, 12679-12688.	3.1	18
34	Nanometer-Range Strain Distribution in Layered Incommensurate Systems. Physical Review Letters, 2012, 109, 266102.	7.8	15
35	Scanning tunneling spectroscopy and manipulation of C60 on Cu(111). Applied Physics A: Materials Science and Processing, 2007, 87, 475-478.	2.3	14
36	STM study of nucleation of Ag on Si(111) $\hat{a}$ (7 $\tilde{A}$ — 7) surface. European Physical Journal D, 1999, 49, 1613-1619.	0.4	13

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37	Scanning tunneling microscopy contrast in lateral Ge-Si nanostructures on <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mml:mrow><mr .<="" 2010,="" 81,="" b,="" physical="" review="" td=""><td>ກ<b>ໃ:່ກິ</b>ກ&gt;11:</td><td>1 &lt; /mml:mn</td></mr></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:mrow></mml:math>	ກ <b>ໃ:່ກິ</b> ກ>11:	1 < /mml:mn
38	Endohedral Fullerene Ce@C <sub>82</sub> on Cu(111): Orientation, Electronic Structure, and Electron-Vibration Coupling. Journal of Physical Chemistry C, 2013, 117, 1656-1662.	3.1	12
39	One-dimensional ordering of Ge nanoclusters along atomically straight steps of Si(111). Applied Physics Letters, 2007, 90, 013108.	3.3	11
40	Selective electrooxidation of 2-propanol on Pt nanoparticles supported on Co <sub>3</sub> O <sub>4</sub> : an in-situ study on atomically defined model systems. Journal Physics D: Applied Physics, 2021, 54, 164002.	2.8	11
41	Electron-induced excitation of vibrations of Ce atoms inside aC80cage. Physical Review B, 2011, 83, .	3.2	9
42	Heteroepitaxy of Cerium Oxide Thin Films on Cu(111). Materials, 2015, 8, 6346-6359.	2.9	9
43	Stability of the Pd/Co <sub>3</sub> O <sub>4</sub> (111) Model Catalysts in Oxidizing and Humid Environments. Journal of Physical Chemistry C, 2021, 125, 2907-2917.	3.1	9
44	Reactive interaction of isopropanol with Co3O4(1 $1\ 1$ ) and Pt/Co3O4(1 $1\ 1$ ) model catalysts. Journal of Catalysis, 2021, 398, 171-184.	6.2	8
45	Self-assembly of periodic nanoclusters of Si and Ge along atomically straight steps of a vicinal Si(111). Journal of Applied Physics, 2007, 101, 081702.	2.5	7
46	Faceting Transition at the Oxide–Metal Interface: (13 13 1) Facets on Cu(110) Induced by Carpet-Like Ceria Overlayer. Journal of Physical Chemistry C, 2015, 119, 1851-1858.	3.1	7
47	Ordered phases of reduced ceria as inverse model catalysts. Applied Surface Science, 2019, 465, 557-563.	6.1	6
48	Ordered SiGe islands on vicinal and pre-patterned Si(001) substrates. Microelectronic Engineering, 2006, 83, 1730-1735.	2.4	3
49	Two-dimensional, high valence-doped ceria: Ce 6 WO 12 (100)/W(110). Applied Surface Science, 2016, 372, 152-157.	6.1	3
50	Thermal stability of cobalt oxide thin films and its enhancement by cerium oxide. Applied Surface Science, 2022, 593, 153430.	6.1	3
51	Reconstruction-Determined Diffusion of Ag Adatoms on the Si(111)-(7X7) Surface. European Physical Journal D, 2003, 53, 69-74.	0.4	2
52	Ag/Si(111)-(7×7) Heteroepitaxyâ€"STM Experiment and KMC Simulations. European Physical Journal D, 2003, 53, 41-48.	0.4	2
53	Redox-mediated C–C bond scission in alcohols adsorbed on CeO <sub>2â^' x </sub> thin films. Journal of Physics Condensed Matter, 2022, 34, 194002.	1.8	2
54	1D tungsten oxide nanostructures on a Cu(1 1 0) surface. Journal of Physics Condensed Matter, 2018, 3 465001.	0 <sub>1.8</sub>	1

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55	Aggregation of gold condensate on HOPG substrate. Vacuum, 1998, 50, 179-181.	3.5	1
56	Kinetic Monte Carlo simulations of Si/Si(111)7 $\tilde{A}$ —7 homoepitaxy. European Physical Journal D, 1999, 49, 1605-1612.	0.4	0
57	Kinetic and strain-driven growth phenomena on Si(001). Physica Status Solidi A, 2004, 201, 324-328.	1.7	O
58	Growth of transition metals on cerium tungstate model catalyst layers. Journal of Physics Condensed Matter, 2016, 28, 395002.	1.8	0
59	CeOx(111)/Cu(111) Thin Films as Model Catalyst Supports. Springer Series in Materials Science, 2016, , 233-250.	0.6	0