

# Martin Vondráček

## List of Publications by Year in descending order

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54  
papers

1,333  
citations

516710

16  
h-index

345221

36  
g-index

55  
all docs

55  
docs citations

55  
times ranked

2451  
citing authors

#	ARTICLE	IF	CITATIONS
1	A highly durable graphene monolayer electrode under long-term hydrogen evolution cycling. <i>Chemical Communications</i> , 2022, 58, 3823-3826.	4.1	4
2	Single-crystal studies and electronic structure investigation of the room-temperature semiconductor NaMnAs. <i>Physical Review B</i> , 2022, 105, .	3.2	1
3	Strain and Charge Doping Fingerprints of the Strong Interaction between Monolayer MoS <sub>2</sub> and Gold. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6112-6118.	4.6	77
4	Local geometry around B atoms in B/Si(1â€%1â€%1) from polarized x-ray absorption spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 045901.	1.8	1
5	Revisiting thin film of glassy carbon. <i>Physical Review Materials</i> , 2020, 4, .	2.4	9
6	pH sensitivity of interfacial electron transfer at a supported graphene monolayer. <i>Nanoscale</i> , 2019, 11, 14742-14756.	5.6	14
7	Diketopyrrolopyrrole-Based Organic Solar Cells Functionality: The Role of Orbital Energy and Crystallinity. <i>Journal of Physical Chemistry C</i> , 2019, 123, 11447-11463.	3.1	15
8	High temperature corrosion of Feâ€%wt% Si steel in various atmospheres. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 593-604.	1.5	2
9	Reversible structural changes of in situ prepared As <sub>40</sub> Se <sub>60</sub> nanolayers studied by XPS spectroscopy. <i>Applied Nanoscience (Switzerland)</i> , 2019, 9, 917-924.	3.1	4
10	Simple device for the growth of micrometer-sized monocrystalline single-layer graphene on SiC(0001). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2018, 36, .	2.1	4
11	Enhanced absorption of TiO <sub>2</sub> nanotubes by N-doping and CdS quantum dots sensitization: insight into the structure. <i>RSC Advances</i> , 2018, 8, 35073-35082.	3.6	8
12	Super-bandgap light stimulated reversible transformation and laser-driven mass transport at the surface of As <sub>2</sub> S <sub>3</sub> chalcogenide nanolayers studied <i>in situ</i> . <i>Journal of Chemical Physics</i> , 2018, 149, 214702.	3.0	4
13	Surface analysis of the Heusler Ni <sub>49.7</sub> Mn <sub>29.1</sub> Ga <sub>21.2</sub> Alloy: The composition, phase transition, and twinned microstructure of martensite. <i>Journal of Applied Physics</i> , 2016, 120, 113905.	2.5	3
14	In situ investigations of laser and thermally modified As <sub>2</sub> S <sub>3</sub> nanolayers: Synchrotron radiation photoelectron spectroscopy and density functional theory calculations. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	9
15	Electronic and Chemical Properties of Donor, Acceptor Centers in Graphene. <i>ACS Nano</i> , 2015, 9, 9180-9187.	14.6	36
16	Electronic structure origin of conductivity and oxygen reduction activity changes in low-level Cr-substituted (La,Sr)MnO <sub>3</sub> . <i>Journal of Chemical Physics</i> , 2015, 143, 114705.	3.0	3
17	Temperature-Dependent Reactions of Phthalic Acid on Ag(100). <i>Journal of Physical Chemistry C</i> , 2015, 119, 23580-23585.	3.1	11
18	Ferroelectricity in antiferroelectric NaNbO <sub>3</sub> crystal. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 125901.	1.8	21

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19	Thermal evolution of the submonolayer near-surface alloy of ZnPd on Pd(111). <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 4764.	2.8	5
20	Ullmann-type coupling of brominated tetrathienoanthracene on copper and silver. <i>Nanoscale</i> , 2014, 6, 2660-2668.	5.6	106
21	Achieving High-Quality Single-Atom Nitrogen Doping of Graphene/SiC(0001) by Ion Implantation and Subsequent Thermal Stabilization. <i>ACS Nano</i> , 2014, 8, 7318-7324.	14.6	81
22	Graphene preparation by annealing of Co/SiC structure. <i>Applied Surface Science</i> , 2014, 320, 544-551.	6.1	9
23	Electronic structure of CoPc adsorbed on Ag(100): Evidence for molecule-substrate interaction mediated by Co $3d$ orbitals. <i>Physical Review B</i> , 2013, 87, .	3.2	54
24	Synthesis and electronic structure of a two dimensional $\pi$ -conjugated polythiophene. <i>Chemical Science</i> , 2013, 4, 3263.	7.4	130
25	Atomic and Electronic Structure of $\text{Rh}(110)$ Near-Surface Alloy. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12679-12688.	3.1	18
26	Adsorption of 5-halouracils on Au(111). <i>Surface Science</i> , 2012, 606, 435-443.	1.9	14
27	Facile fabrication of tin-doped hematite photoelectrodes – effect of doping on magnetic properties and performance for light-induced water splitting. <i>Journal of Materials Chemistry</i> , 2012, 22, 23232.	6.7	65
28	Bimetallic Nickel–Cobalt Nanosized Layers Supported on Polar ZnO Surfaces: Metal–Support Interaction and Alloy Effects Studied by Synchrotron Radiation X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 10048-10056.	3.1	20
29	An Investigation of Ethylene Attachment to Si(111)- $7\times 7$ in the Restatom–Adatom Bridging Geometry: Electronic and Vibrational Properties. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21791-21799.	3.1	5
30	Mössbauer Effect Study of Iron Thin Films on $\text{SiO}_2$ Substrate and Iron Phases at Deposited Carbon Nanotubes. , 2010, , .		0
31	Core level photoemission and STM characterization of Ta/Si(111)- $7\times 7$ interfaces. <i>Surface Science</i> , 2009, 603, 469-476.	1.9	3
32	Intra-atomic charge re-organization at the Pb–Si interface: Bonding mechanism at low coverage. <i>Surface Science</i> , 2009, 603, 2861-2869.	1.9	1
33	Effect of illumination on magnetization and microwave absorption of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ( $x < 0.2$ ) films. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 1747-1752.	2.3	2
34	Self-Assembled Carbon Nanotubes on Gold: Polarization-Modulated Infrared Reflection–Absorption Spectroscopy, High-Resolution X-ray Photoemission Spectroscopy, and Near-Edge X-ray Absorption Fine Structure Spectroscopy Study. <i>Langmuir</i> , 2008, 24, 3235-3243.	3.5	25
35	Photoemission from Al(100) and (111): Experiment and <i>ab initio</i> theory. <i>Physical Review B</i> , 2008, 78, .	3.2	32
36	Photoemission from Al(100): experiment and one-step theory. <i>Journal of Physics: Conference Series</i> , 2008, 100, 072035.	0.4	1

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37	Interaction of ethylene with palladium clusters supported on oxidised tungsten foil. Surface Science, 2007, 601, 3114-3124.	1.9	3
38	Surface segregation in FeSi alloys. Surface Science, 2006, 600, 4108-4112.	1.9	11
39	Photoemission study of the (2 $\times$ 2) structure formed by H <sub>2</sub> O adsorption on the Zr(0001) surface. Surface Science, 2006, 600, 3581-3585.	1.9	3
40	Surface and Grain Boundary Segregation in Fe-3%Si Alloy. Steel Research International, 2005, 76, 435-439.	1.8	2
41	Phase composition at surface of Fe-3%Si alloy. European Physical Journal D, 2005, 55, 875-882.	0.4	2
42	Evidence for valence-charge fluctuations in the 3 $\times$ 3 $\times$ Pb $\cdot$ Si(111) system. Physical Review B, 2004, 70, .	3.2	12
43	Photoemission study of two dimensional phase transitions on the Pb/Si(111) surface. Surface Science, 2004, 566-568, 804-809.	1.9	7
44	Activation of binary Zr $\epsilon$ -V non-evaporable getters: a soft X-ray photoemission study of carbide formation. Surface Science, 2004, 566-568, 1246-1249.	1.9	13
45	Changes in Fe $\epsilon$ -B amorphous alloy driven by nitrogen implantation. Journal of Magnetism and Magnetic Materials, 2004, 272-276, E1147-E1149.	2.3	1
46	Interfacial reconstruction in the system Pb/Ag(110). Surface Science, 2003, 542, 112-119.	1.9	12
47	Mechanical design aspects of a soft X-ray plane grating monochromator. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 467-468, 561-564.	1.6	53
48	The high resolution Gas Phase Photoemission beamline, Elettra. Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 959-964.	1.7	201
49	A critical comparison of selected 1s and 2p core hole widths. Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 141-147.	1.7	117
50	Vibrationally resolved oxygen K $\alpha$ $\beta$ — spectra of O <sub>2</sub> and CO. Chemical Physics Letters, 1999, 306, 269-274.	2.6	80
51	M $\ddot{u}$ ssbauer and magnetic study of mechanical alloying of Fe <sub>3</sub> Si. European Physical Journal D, 1997, 47, 585-588.	0.4	2
52	Structure sensitivity of magnetic and electrical properties of Fe $\beta$ -Al intermetallic compounds. Sensors and Actuators A: Physical, 1997, 59, 269-271.	4.1	7
53	Role of interfaces in changes of magnetic properties and magnetoresistance of Alfenol 16. IEEE Transactions on Magnetics, 1994, 30, 729-731.	2.1	3
54	Magnetoresistance in ordered and disordered Fe <sub>72</sub> Al <sub>28</sub> alloy. Journal of Magnetism and Magnetic Materials, 1993, 127, L33-L36.	2.3	7