

Jerzy Sadowski

List of Publications by Year in descending order

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129
papers

5,264
citations

159585

30
h-index

88630

70
g-index

133
all docs

133
docs citations

133
times ranked

7829
citing authors

#	ARTICLE	IF	CITATIONS
1	Magnetotransport and magnetic textures in Ho/FeCoGd/ λ^2 -W multilayers. Physical Review B, 2022, 105, .	3.2	3
2	Micrometre-scale single-crystalline borophene on a square-lattice Cu(100) surface. Nature Chemistry, 2022, 14, 377-383.	13.6	28
3	Atomistic mechanisms of the initial oxidation of stepped Cu surfaces. Physical Review B, 2022, 105, .	3.2	3
4	Resolving Chemical and Spatial Heterogeneities at Complex Electrochemical Interfaces in Li-Ion Batteries. Chemistry of Materials, 2022, 34, 232-243.	6.7	9
5	Strain-Dependent Surface Defect Equilibria of Mixed Ionic-Electronic Conducting Perovskites. Chemistry of Materials, 2022, 34, 5138-5150.	6.7	7
6	Exsolution-Driven Surface Transformation in the Host Oxide. Nano Letters, 2022, 22, 5401-5408.	9.1	23
7	Hydrogen bonded trimesic acid networks on Cu(111) reveal how basic chemical properties are imprinted in HR-AFM images. Nanoscale, 2021, 13, 18473-18482.	5.6	6
8	High quantum efficiency GaAs photocathodes activated with Cs, O ₂ , and Te. AIP Advances, 2021, 11, .	1.3	11
9	Structural Phase Transitions of NbO ₂ : Bulk versus Surface. Chemistry of Materials, 2021, 33, 1416-1425.	6.7	14
10	Sudden Collapse of Magnetic Order in Oxygen-Deficient Nickelate Films. Physical Review Letters, 2021, 126, 187602.	7.8	16
11	Quantum-Well Bound States in Graphene Heterostructure Interfaces. Physical Review Letters, 2021, 127, 086805.	7.8	5
12	Coupling between bulk thermal defects and surface segregation dynamics. Physical Review B, 2021, 104, .	3.2	3
13	Correlating surface stoichiometry and termination in SrTiO ₃ films grown by hybrid molecular beam epitaxy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.1	8
14	Emergent flat band electronic structure in a VSe ₂ /Bi ₂ Se ₃ heterostructure. Communications Materials, 2021, 2, .	6.9	15
15	Second derivative analysis and alternative data filters for multi-dimensional spectroscopies: A Fourier-space perspective. Journal of Electron Spectroscopy and Related Phenomena, 2020, 238, 146852.	1.7	1
16	Multi-modal surface analysis of porous films under <i>operando</i> conditions. AIP Advances, 2020, 10, .	1.3	19
17	Non-compact oxide-island growth induced by surface phase transition of the intermetallic NiAl during vacuum annealing. Acta Materialia, 2020, 201, 244-253.	7.9	5
18	Large mobility modulation in ultrathin amorphous titanium oxide transistors. Communications Materials, 2020, 1, .	6.9	10

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19	Ionic Liquids: Lubrication Mechanism of Phosphonium Phosphate Ionic Liquid in Nanoscale Single-Asperity Sliding Contacts (Adv. Mater. Interfaces 17/2020). Advanced Materials Interfaces, 2020, 7, 2070099.	3.7	0
20	Crystal structure reconstruction in the surface monolayer of the quantum spin liquid candidate $\Gamma\pm$ -RuCl ₃ . 2D Materials, 2020, 7, 035004.	4.4	11
21	Lubrication Mechanism of Phosphonium Phosphate Ionic Liquid in Nanoscale Single-Asperity Sliding Contacts. Advanced Materials Interfaces, 2020, 7, 2000426.	3.7	18
22	Correlation of Auger electron spectroscopy and microsynchrotron radiation x-ray photoelectron spectroscopy investigations of Ba-Sc-O desorption on W(100). Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2020, 38, .	1.2	1
23	A mathematical model of solid-state dewetting of barium thin films on $\langle 100 \rangle$ W(112). Mathematical Modelling of Natural Phenomena, 2020, 15, 12.	2.4	0
24	Fabrication of field-effect transistors with transfer-free nanostructured carbon as the semiconducting channel material. Nanotechnology, 2020, 31, 485203.	2.6	2
25	Scale-invariant magnetic textures in the strongly correlated oxide NdNiO ₃ . Nature Communications, 2019, 10, 4568.	12.8	30
26	Morphology of Palladium Thin Film Deposited on a Two-Dimensional Bilayer Aluminosilicate. Topics in Catalysis, 2019, 62, 1067-1075.	2.8	3
27	Observation of intercalation-driven zone folding in quasi-free-standing graphene energy bands. Physical Review B, 2019, 99, .	3.2	6
28	Scandium function in θ -alumina thermionic cathodes: A microspot synchrotron radiation x-ray photoelectron spectroscopy study of co-adsorbed Ba-Sc-O on W(100). Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	2.1	7
29	Hydrogen-Induced Clustering of Metal Atoms in Oxygenated Metal Surfaces. Journal of Physical Chemistry C, 2019, 123, 11662-11670.	3.1	7
30	Solid-solid dewetting of scandium thin films on the W(100) surface observed using emission microscopy. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2019, 37, .	1.2	7
31	Temperature-independent thermal radiation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26402-26406.	7.1	69
32	Nucleation, morphology, and structure of sub- μm thin ceria islands on Rh(111). Surface and Interface Analysis, 2019, 51, 110-114.	1.8	0
33	Evidence of a second-order Peierls-driven metal-insulator transition in crystalline NbO ₂ . Physical Review Materials, 2019, 3, .	2.4	18
34	Excitation and characterization of image potential state electrons on quasi-free-standing graphene. Physical Review B, 2018, 97, .	3.2	7
35	Visualizing Reversible Two-Dimensional Phase Transitions in Oxygen Chemisorbed Layers. Journal of Physical Chemistry C, 2018, 122, 28233-28244.	3.1	7
36	Phase transition and electronic structure evolution of MoTe_2 induced by W substitution. Physical Review B, 2018, 98, .	3.2	9

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37	Tuning electronic properties by oxidation-reduction reactions at graphene-ruthenium interfaces. Carbon, 2018, 138, 271-276.	10.3	2
38	Metallic atomically-thin layered silicon epitaxially grown on silicene/ZrB ₂ . 2D Materials, 2017, 4, 021015.	4.4	13
39	Surface structure of bulk 2H-MoS ₂ (0001) and exfoliated suspended monolayer MoS ₂ : A selected area low energy electron diffraction study. Surface Science, 2017, 660, 16-21.	1.9	25
40	In Situ Probing of Ion Ordering at an Electrified Ionic Liquid/Au Interface. Advanced Materials, 2017, 29, 1606357.	21.0	13
41	Visualization of molecular packing and tilting domains and interface effects in tetracene thin films on H/Si(001). Physica Status Solidi (B): Basic Research, 2017, 254, 1600777.	1.5	2
42	New In-Situ and Operando Facilities for Catalysis Science at NSLS-II: The Deployment of Real-Time, Chemical, and Structure-Sensitive X-ray Probes. Synchrotron Radiation News, 2017, 30, 30-37.	0.8	28
43	De-wetting of barium on W(100) and (110) surfaces observed using thermionic emission microscopy., 2017, , .		0
44	Electronic Structure of the Metastable Epitaxial Rock-Salt SnSe $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \langle \text{mml:mo stretchy="false"} \rangle \{ \langle \text{mml:mo} \langle \text{mml:mn} \rangle 111 \langle \text{mml:mn} \rangle \langle \text{mml:mo stretchy="false"} \rangle \} \langle \text{mml:mo} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ Topological Crystalline Insulator. Physical Review X, 2017, 7, .	8.9	17
45	Near band edge photoluminescence of ZnO nanowires: Optimization via surface engineering. Applied Physics Letters, 2017, 111, 231901.	3.3	15
46	Stand-alone polarization-modulation infrared reflection absorption spectroscopy instrument optimized for the study of catalytic processes at elevated pressures. Review of Scientific Instruments, 2017, 88, 105109.	1.3	8
47	Self-assembly of ordered graphene nanodot arrays. Nature Communications, 2017, 8, 47.	12.8	25
48	Studying two-dimensional zeolites with the tools of surface science: MFI nanosheets on Au(111). Catalysis Today, 2017, 280, 283-288.	4.4	11
49	Surface buckling of black phosphorus: Determination, origin, and influence on electronic structure. Physical Review Materials, 2017, 1, .	2.4	13
50	Single-domain epitaxial silicene on diboride thin films. Applied Physics Letters, 2016, 108, .	3.3	17
51	Growth and characterization of epitaxially stabilized ceria(001) nanostructures on Ru(0001). Nanoscale, 2016, 8, 10849-10856.	5.6	22
52	Interface energetics in zinc phthalocyanine growth on Ag(100). Physical Review B, 2016, 93, .	3.2	4
53	Direct Measurement of the Tunable Electronic Structure of Bilayer MoS ₂ by Interlayer Twist. Nano Letters, 2016, 16, 953-959.	9.1	113
54	Adsorption and thermal treatments of 1-dodecene on Si(100) investigated by STM. Surface Science, 2015, 633, 89-93.	1.9	0

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55	Layer-dependent electronic structure of an atomically heavy two-dimensional dichalcogenide. <i>Physical Review B</i> , 2015, 91, .	3.2	85
56	Wrinkles of graphene on Ir(1 1 1): Macroscopic network ordering and internal multi-lobed structure. <i>Carbon</i> , 2015, 94, 856-863.	10.3	9
57	Surface Reactions of Ethanol over UO ₂ (100) Thin Film. <i>Journal of Physical Chemistry C</i> , 2015, 119, 24895-24901.	3.1	3
58	Substrate interactions with suspended and supported monolayer MoS_2 : Angle-resolved photoemission spectroscopy. <i>Physical Review B</i> , 2015, 91, .	3.2	56
59	Quantum corrections to the conductivity of disordered graphene on SiC $\overline{0001}$: weak localization and current-bias dependent electron-electron interactions. <i>New Journal of Physics</i> , 2014, 16, 013024.	2.9	2
60	Tin Disulfide—An Emerging Layered Metal Dichalcogenide Semiconductor: Materials Properties and Device Characteristics. <i>ACS Nano</i> , 2014, 8, 10743-10755.	14.6	449
61	Absence of a Proximity Effect for a Thin Films of a Bi_2Se_3 Insulator Grown on Top of a Bi_2Se_3 . <i>Physical Review Letters</i> , 2014, 113, .	7.8	39
62	Probing substrate-dependent long-range surface structure of single-layer and multilayer MoS_2 by low-energy electron microscopy and microprobe diffraction. <i>Physical Review B</i> , 2014, 89, .	3.2	16
63	Stabilization of Catalytically Active Cu ⁺ Surface Sites on Titanium—Copper Mixed-Oxide Films. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 5336-5340.	13.8	51
64	Highly efficient solid state catalysis by reconstructed (001) Ceria surface. <i>Scientific Reports</i> , 2014, 4, 4627.	3.3	24
65	Direct Measurement of the Thickness-Dependent Electronic Band Structure of MoS_2 Using Angle-Resolved Photoemission Spectroscopy. <i>Physical Review Letters</i> , 2013, 111, 106801.	7.8	435
66	The mechanism of caesium intercalation of graphene. <i>Nature Communications</i> , 2013, 4, 2772.	12.8	184
67	Growth mode and oxidation state analysis of individual cerium oxide islands on Ru(0001). <i>Ultramicroscopy</i> , 2013, 130, 87-93.	1.9	24
68	Tuning of silicene-substrate interactions with potassium adsorption. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	51
69	Growth and Morphology of Ceria on Ruthenium (0001). <i>Journal of Physical Chemistry C</i> , 2013, 117, 221-232.	3.1	52
70	In Situ Imaging of Cu ₂ O under Reducing Conditions: Formation of Metallic Fronts by Mass Transfer. <i>Journal of the American Chemical Society</i> , 2013, 135, 16781-16784.	13.7	74
71	Origin of chemical contrast in low-energy electron reflectivity of correlated multivalent oxides: The case of ceria. <i>Physical Review B</i> , 2013, 88, .	3.2	15
72	Oxygen-reconstructed Co(100) investigated by spin-polarized photoemission spectroscopy. <i>Physical Review B</i> , 2013, 88, .	3.2	22

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73	Termination-dependent topological surface states of the natural superlattice phase Bi ₄ Se ₃ . Physical Review B, 2013, 88, .	3.2	52
74	Real-time Microscopy of Reorientation Driven Nucleation and Growth in Pentacene Thin Films on Silicon Dioxide. Advanced Functional Materials, 2013, 23, 2653-2660.	14.9	28
75	The electron spectro-microscopy beamline at National Synchrotron Light Source II: A wide photon energy range, micro-focusing beamline for photoelectron spectro-microscopies. Review of Scientific Instruments, 2012, 83, 023102.	1.3	10
76	Topological semimetal in a Bi-Bi ₂ Se ₃ infinitely adaptive superlattice phase. Physical Review B, 2012, 86, .	3.2	59
77	Scandium oxide coated polycrystalline tungsten studied using emission microscopy and photoelectron spectroscopy. Ultramicroscopy, 2012, 119, 106-110.	1.9	13
78	Nanopatterning in CeO ₂ /Cu(111): A New Type of Surface Reconstruction and Enhancement of Catalytic Activity. Journal of Physical Chemistry Letters, 2012, 3, 839-843.	4.6	38
79	Pentacene growth on 3-aminopropyltrimethoxysilane modified silicon dioxide. Optical Materials, 2012, 34, 1635-1638.	3.6	7
80	Large Single Crystals of Graphene on Melted Copper Using Chemical Vapor Deposition. ACS Nano, 2012, 6, 5010-5017.	14.6	218
81	Nanoscience and nanotechnology. Open Physics, 2011, 9, .	1.7	2
82	Interfacial nanostructure induced spin-reorientation transition in Ni/Fe/Ni/W(110). Physical Review B, 2011, 83, .	3.2	7
83	Surface morphology and transport studies of epitaxial graphene on SiC(0001̄2). Physical Review B, 2011, 83, .	3.2	10
84	Domain faceting in an in-plane magnetic reorientation transition. Physical Review B, 2010, 82, .	3.2	10
85	Formation of giant crystalline grain via delayed growth process driven by organic molecular anisotropy. Physical Review B, 2010, 82, .	3.2	13
86	Surface reconstruction of hexagonal Y-doped HoMnO_3 and LuMnO_3 using low-energy electron diffraction. Physical Review B, 2010, 81, .	3.2	1
87	Chemistry under Cover: Tuning Metal-Graphene Interaction by Reactive Intercalation. Journal of the American Chemical Society, 2010, 132, 8175-8179.	13.7	310
88	Adsorption and Electronic Structure of Single C ₆₀ F ₁₈ Molecule on Si(111)-7 \times 7 Surface. Fullerenes Nanotubes and Carbon Nanostructures, 2010, 18, 369-375.	2.1	2
89	Temperature dependent low energy electron microscopy study of Ge island growth on bare and Ga terminated Si(112). Journal of Physics Condensed Matter, 2009, 21, 314020.	1.8	5
90	Comparative studies of pentacene and perfluoropentacene grown on a Bi(0001) surface. Nanotechnology, 2009, 20, 095704.	2.6	11

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91	Real-Time Observation and Control of Pentacene Film Growth on an Artificially Structured Substrate. <i>Advanced Materials</i> , 2009, 21, 4996-5000.	21.0	22
92	The growth mechanism of pentacene-fullerene heteroepitaxial films. <i>Surface Science</i> , 2009, 603, L53-L56.	1.9	16
93	Adsorption and electronic structure of single C ₆₀ F ₁₈ molecule on Si(111)-7 \times 7 surface. <i>Chemical Physics Letters</i> , 2009, 482, 307-311.	2.6	20
94	Low-dimensional nanostructures and fullerene films on semiconductor surface. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2009, 73, 32-35.	0.6	0
95	Epitaxial growth of C ₆₀ thin films on the Bi(0001)/Si(111) surface. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2009, 73, 883-885.	0.6	4
96	Scanning tunneling microscopy on epitaxial bilayer graphene on ruthenium (0001). <i>Applied Physics Letters</i> , 2009, 94, .	3.3	115
97	Electronic Structure of Few-Layer Epitaxial Graphene on Ru(0001). <i>Nano Letters</i> , 2009, 9, 2654-2660.	9.1	219
98	Graphene on Pt(111): Growth and substrate interaction. <i>Physical Review B</i> , 2009, 80, .	3.2	565
99	Fluorine diffusion assisted by diffusing silicon on the Si(111)-(7 \times 7) surface. <i>Journal of Chemical Physics</i> , 2008, 129, 234710.	3.0	6
100	Kinetics-driven anisotropic growth of pentacene thin films. <i>Physical Review B</i> , 2008, 77, .	3.2	42
101	Controllable Growth of C ₆₀ Thin Films Bi(001)/Si(111) Surface. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2008, 16, 417-423.	2.1	0
102	Mechanism of Chiral Growth of 6, 13-Pentacenequinone Films on Si (111). <i>Advances in Materials Research</i> , 2008, , 281-293.	0.2	1
103	Spontaneous aggregation of pentacene molecules and its influence on field effect mobility. <i>Applied Physics Letters</i> , 2007, 90, 251906.	3.3	28
104	Polycrystalline domain structure of pentacene thin films epitaxially grown on a hydrogen-terminated Si(111) surface. <i>Physical Review B</i> , 2007, 76, .	3.2	21
105	STM/STS STUDIES OF THE INITIAL STAGE OF GROWTH OF ULTRA-THIN Bi FILMS ON 7 \times 7-Si(111) SURFACE. <i>International Journal of Nanoscience</i> , 2007, 06, 399-401.	0.7	1
106	Single-Nucleus Polycrystallization in Thin Film Epitaxial Growth. <i>Physical Review Letters</i> , 2007, 98, 046104.	7.8	42
107	Mechanism of two-dimensional chiral growth of 6,13-pentacenequinone thin films on Si(111). <i>Surface Science</i> , 2007, 601, 1311-1318.	1.9	13
108	Epitaxial C ₆₀ thin films on Bi(0001). <i>Surface Science</i> , 2007, 601, L136-L139.	1.9	17

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109	Formation of highly crystalline C60 molecular films on a Bi(0001)/Si(111) surface. JETP Letters, 2007, 86, 522-525.	1.4	1
110	Epitaxial structures of self-organized, standing-up pentacene thin films studied by LEEM and STM. Surface Science, 2007, 601, 1304-1310.	1.9	34
111	Origin of flat morphology and high crystallinity of ultrathin bismuth films. Surface Science, 2007, 601, 3593-3600.	1.9	79
112	Nanoscale Observation of Interface Formation Process between Semiconductor Surface and Pentacene Thin Film. Shinku/Journal of the Vacuum Society of Japan, 2007, 50, 723-728.	0.2	1
113	Stability of the quasicubic phase in the initial stage of the growth of bismuth films on Si(111)-7 \times 7. Journal of Applied Physics, 2006, 99, 014904.	2.5	36
114	Strong lateral growth and crystallization via two-dimensional allotropic transformation of semi-metal Bi film. Surface Science, 2005, 590, 247-252.	1.9	66
115	Structural transition of pentacene monolayer on Ga bilayer: From brick-wall structure to herringbone pattern of molecular dimers. Surface Science, 2005, 579, 80-88.	1.9	7
116	Thin bismuth film as a template for pentacene growth. Applied Physics Letters, 2005, 86, 073109.	3.3	87
117	Role of Surface Electronic Structure in Thin Film Molecular Ordering. Physical Review Letters, 2005, 95, 256106.	7.8	136
118	Epitaxial relation and island growth of perylene-3,4,9,10-tetracarboxylic dianhydride (PTCDA) thin film crystals on a hydrogen-terminated Si(111) substrate. Journal of Crystal Growth, 2004, 262, 196-201.	1.5	20
119	Nanofilm Allotrope and Phase Transformation of Ultrathin Bi Film on Si(111)-7 \times 7. Physical Review Letters, 2004, 93, 105501.	7.8	417
120	Surface pre-melting and surface flattening of Bi nanofilms on Si(111)-7 \times 7. Surface Science, 2003, 547, L877-L881.	1.9	47
121	Adsorption of Fluorinated C60 on the Si(111)-(7 \times 7) Surface Studied by Scanning Tunneling Microscopy and High-Resolution Electron Energy Loss Spectroscopy. Japanese Journal of Applied Physics, 2002, 41, 245-249.	1.5	11
122	Fluorinated fullerene thin films on Si(111)-(7 \times 7) surface. Materials Characterization, 2002, 48, 127-132.	4.4	6
123	Fluorine etching on the Si(111)-(7 \times 7) surfaces using fluorinated fullerene. Surface Science, 2002, 521, 43-48.	1.9	12
124	Fluorinated fullerene thin films grown on the Si(111)-7 \times 7 surfaces: STM and HREELS investigations. Journal of Crystal Growth, 2001, 229, 580-585.	1.5	11
125	Xue et al. Reply. Physical Review Letters, 2000, 84, 4015-4015.	7.8	4
126	Reflection mass spectrometry studies on UHV ALE of Cd $_{1-x}$ Zn $_x$ Te (0 \leq x \leq 1) compounds. Applied Surface Science, 1997, 112, 148-153.	6.1	16

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127	Ultrahigh vacuum atomic layer epitaxy of $\text{Cd}_{1-x}\text{Mn}_x\text{Te}$ layers grown on (100) substrates: reflection mass spectrometry studies. <i>Thin Solid Films</i> , 1997, 306, 266-270.	1.8	8
128	The MBE temperature window for $\text{Cd}_{1-x}\text{Zn}_x\text{Te}$ ($0 \leq x \leq 1$) compounds grown on 2° -off oriented $\text{GaAs}(100)$. <i>J. Appl. Phys.</i> 1997, 81, 4100-4104.	1.5	4
129	Blue photoluminescence of $\text{Zn}_{1-x}\text{Cd}_x\text{Se}$ quantum wells in ZnMgSe . <i>Semiconductor Science and Technology</i> , 1995, 10, 489-491.	2.0	16