

# Ryszard Czajka

## List of Publications by Year in descending order

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal reaction of iron with a Si(111) vicinal surface: Surface ordering and growth of CsCl-type iron silicide. <i>Physical Review B</i> , 2003, 67, .	3.2	64
2	Light driven reactions of single physisorbed azobenzenes. <i>Chemical Communications</i> , 2011, 47, 7764.	4.1	35
3	Polypyrrole microtubules and their use in the construction of a third generation biosensor. <i>Synthetic Metals</i> , 1992, 51, 397-405.	3.9	33
4	Electronic states and stability of selenium clusters. <i>Physical Review B</i> , 1995, 52, 1524-1527.	3.2	31
5	Scanning tunnelling microscopy study of polypyrrole films and of glucose oxidase as used in a third-generation biosensor. <i>Bioelectrochemistry</i> , 1992, 29, 47-57.	1.0	30
6	Preparation of an Ultraclean and Atomically Controlled Hydrogen-Terminated Si(111)-(1Å- 1) Surface Revealed by High Resolution Electron Energy Loss Spectroscopy, Atomic Force Microscopy, and Scanning Tunneling Microscopy: Aqueous NH <sub>4</sub> F Etching Process of Si(111). <i>Japanese Journal of Applied Physics</i> , 2007, 46, 5701.	1.5	27
7	Superconductivity in PrBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> single crystals after high-temperature thermal treatment. <i>Physica C: Superconductivity and Its Applications</i> , 1999, 322, 57-64.	1.2	26
8	Observation of C <sub>60</sub> film formation on a highly oriented pyrolytic graphite substrate via scanning tunnelling microscopy. <i>Applied Surface Science</i> , 1999, 144-145, 648-652.	6.1	23
9	Size- and shape-controls and electronic functions of nanometer-scale semiconductors and oxides. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 202, 291-296.	4.7	20
10	The solid state reaction of Fe with the Si(111) vicinal surface: splitting of bunched steps. <i>Nanotechnology</i> , 2008, 19, 205706.	2.6	17
11	Interface and nanostructure evolution of cobalt germanides on Ge(001). <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	17
12	CMOS- compatible fabrication method of graphene-based micro devices. <i>Materials Science in Semiconductor Processing</i> , 2017, 67, 92-97.	4.0	16
13	Growth and evolution of nickel germanide nanostructures on Ge(001). <i>Nanotechnology</i> , 2015, 26, 385701.	2.6	15
14	Mechanism of a molecular photo-switch adsorbed on Si(100). <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5366-5371.	2.8	15
15	Chemical etching of stainless steel 301 for improving performance of electrochemical capacitors in aqueous electrolyte. <i>Journal of Power Sources</i> , 2015, 279, 555-562.	7.8	14
16	XPS valence band studies of nanocrystalline Zr Pd alloy thin films. <i>Surface and Coatings Technology</i> , 2016, 303, 125-130.	4.8	14
17	The influence of the CuxS layer on the spectral properties of SnOx/ZnS/CuxS/ZnS(A)/Al electroluminescent thin film structures. <i>Thin Solid Films</i> , 1981, 76, 349-352.	1.8	11
18	Deposited microclusters and their interaction with substrate. <i>Surface Science</i> , 1996, 365, 503-510.	1.9	10

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19	STM study of titanium silicide nanostructure growth on Si(111)-() substrate. Applied Surface Science, 2008, 254, 6948-6951.	6.1	10
20	Growth of InSb thin films on GaAs(100) substrates by flash evaporation epitaxy. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 351-354.	0.8	9
21	Graphene-based magnetoresistance device utilizing strip pattern geometry. Applied Physics Letters, 2017, 110, .	3.3	9
22	Gold clusters deposited on highly oriented pyrolytic graphite by pulse laser ablation and liquid metal ion source. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1996, 217-218, 103-107.	5.6	8
23	AFM investigation of bismuth doped silicate glasses. Vacuum, 1997, 48, 213-216.	3.5	8
24	Characterization of a [4Feâ€4S]â€Ferredoxin Model Based on a Concave Tetradentate Thiol Ligand System. Chemische Berichte, 1997, 130, 23-34.	0.2	8
25	Atomic force microscopy investigation of nanometer-scale modifications of polymer morphology caused by ultraviolet irradiation. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 2477.	2.1	8
26	Correlation between interlayer exchange coupling and hydrogen absorption in V-Fe layered structures. Surface and Coatings Technology, 2016, 303, 119-124.	4.8	8
27	Variable Temperature STM/STS Investigations of Ag Nanoparticles Growth on Semiconductor Surfaces. Acta Physica Polonica A, 2003, 104, 289-302.	0.5	8
28	Structure of the short-wavelength electroluminescence of SnOx/ZnS/CuxS/ ZnS(A)/Al thin film cells. Thin Solid Films, 1981, 83, L159-L163.	1.8	7
29	Atomic force microscopy and friction force microscopy studies of ferroelastic crystal surfaces. Wear, 2000, 238, 34-39.	3.1	7
30	Initial growth of Ba on <math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Ge</mml:mi><mml:mo></mml:mo><mml:mn>001</mml:mn></mml:mrow></math> An STM and DFT study. Physical Review B, 2015, 91, .		
31	Ba termination of Ge(001) studied with STM. Nanotechnology, 2015, 26, 155701.	2.6	7
32	STM and DFT study on formation and characterization of Ba-incorporated phases on a Ge(001) surface. Physical Review B, 2016, 93, .	3.2	7
33	STM and STS Investigations of Bi<sub>2</sub>Te<sub>3</sub> Surface. Acta Physica Polonica A, 2003, 104, 389-395.	0.5	7
34	Growth Properties of Ti/Co Multilayers. Crystal Research and Technology, 2001, 36, 1019-1026.	1.3	6
35	Au clusters deposited on Si(111) and graphite surfaces. Surface and Coatings Technology, 1994, 67, 173-182.	4.8	5
36	Surface physics at the nano-scale via scanning probe microscopy and molecular dynamics simulations. Progress in Surface Science, 1998, 59, 13-23.	8.3	5

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37	Characterization and nanometer-scale modifications of Bi <sub>2</sub> Te <sub>3</sub> surface via atomic force microscopy. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000, 18, 1194.	1.6	5
38	Self-organisation of inorganic elements on Si(001) mediated by pre-adsorbed organic molecules. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23783-23794.	2.8	5
39	Manipulations with Atoms and Clusters. <i>Acta Physica Polonica A</i> , 1995, 88, 813-828.	0.5	5
40	Electronic Excitation of Ni <sup>2+</sup> and Co <sup>2+</sup> by Tunneling Electrons. <i>Physica Status Solidi (B): Basic Research</i> , 1983, 120, K129.	1.5	4
41	STM and STS investigations of transition metals <sup>TM</sup> clusters (Cr, CoCr, Ni) produced by the plasma gas condensation source. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 202, 195-206.	4.7	4
42	A molecular switch based on the manipulation of 1,3-dichlorobenzene on Ge(001) between two adsorption sites by inelastic tunneling electrons. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28830-28836.	2.8	4
43	Stable bismuth sub-monolayer termination of Bi <sub>2</sub> Se <sub>3</sub> . <i>Applied Surface Science</i> , 2019, 476, 701-705.	6.1	4
44	AFM and STM investigations of a Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> high-T <sub>c</sub> superconductor. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996, 217-218, 419-423.	5.6	3
45	TUNNELING SPECTROSCOPY OF NANOMETER-SIZE CLUSTERS DEPOSITED ON GRAPHITE. <i>Surface Review and Letters</i> , 1996, 03, 979-982.	1.1	3
46	AFM investigations of K <sub>3</sub> Na(SeO <sub>4</sub> ) <sub>2</sub> single crystals. <i>Vacuum</i> , 1997, 48, 217-219.	3.5	3
47	STM investigation of cobalt silicide nanostructures <sup>Åçâ,~â,,ç</sup> growth on Si(111)-(1 <sup>ÅçË†Å¡19</sup> Åfâ” ÅçË†Å¡19) substrate. <i>Open Physics</i> , 2009, 7, .	1.7	3
48	Graphene oxide-multiwalled carbon nanotubes composite as an anode for lithium ion batteries. <i>Materials Science-Poland</i> , 2016, 34, 481-486.	1.0	3
49	Effects of the deposition rate on growth modes of Ag islands on the hydrogen-terminated Si(111)-(1 <sup>Åç%Å—âç%1</sup> ) surface: The role of surface energy and quantum size effect. <i>Journal of Applied Physics</i> , 2017, 122, 095303.	2.5	3
50	STM/STS Investigations of Surface Evolution of Si(111)-(7 <sup>Å—7</sup> ) Induced with Nickel. <i>Acta Physica Polonica A</i> , 2003, 104, 345-350.	0.5	3
51	SPM Characterization of Titanium Disilicide Nanostructures Grown on a Ni-Modified Si(100) Substrate. <i>Acta Physica Polonica A</i> , 2011, 120, 480-484.	0.5	3
52	Natural Oxidation of thin Fe Films on V Buffer Layer. <i>Acta Physica Polonica A</i> , 2017, 132, 1272-1276.	0.5	3
53	Polymer studies using atomic force microscopy (AFM). Part II. Investigation of chemical reactions and physical processes in polymers. <i>Polimery</i> , 2003, 48, 91-99.	0.7	3
54	Atomic force microscopy studies of Gd <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> crystal surface. <i>Vacuum</i> , 1999, 54, 53-56.	3.5	2

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55	Early stages of low temperature epitaxial growth of InSb on GaAs. Crystal Research and Technology, 2005, 40, 523-526.	1.3	2
56	STM/STS investigation of carbon nanotubes deposited on Bi <sub>2</sub> Te <sub>3</sub> surface. Open Physics, 2009, 7, .	1.7	2
57	Functionalization of Si(100) surface with benzonitrile molecules in an ultra-high-vacuum molecular evaporator. Materials Science in Semiconductor Processing, 2014, 17, 168-172.	4.0	2
58	Reversible, long-term passivation of Ge(001) by a Ba-induced incorporated phase. Applied Surface Science, 2017, 419, 305-310.	6.1	2
59	Higher order reconstructions of the Ge(001) surface induced by a Ba layer. Applied Surface Science, 2018, 435, 438-443.	6.1	2
60	STM/STS Studies of Self-Organized Growth of Iron Silicide Nanocrystals on Vicinal Si(111) Surface. Acta Physica Polonica A, 2003, 104, 303-319.	0.5	2
61	STM/AFM Observations of Co/Cu Magnetic Multilayers. Acta Physica Polonica A, 1997, 91, 311-314.	0.5	2
62	Polymer studies using atomic force microscopy (AFM). Part I. Principles of AFM and its application in polymer morphology investigations. Polimery, 2002, 47, 775-783.	0.7	2
63	Spectral properties of SnO <sub>x</sub> -ZnS(A)-Cu <sub>x</sub> S-ZnS(A)-Al electroluminescent thin film structures. Physica Status Solidi A, 1982, 71, 79-82.	1.7	1
64	The Decay of m-Cresol in Water by Ozonization Studied by Means of Electron Tunneling. Applied Spectroscopy, 1987, 41, 1254-1256.	2.2	1
65	Structure and stability of microcluster lattice systems. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1993, 19, 44-47.	3.5	1
66	Manipulation of rectangular arrangement of Se-ring-type molecules on graphite (highly oriented) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 American Vacuum Society B, Microelectronics Processing and Phenomena, 1994, 12, 1890.	1.6	1
67	FORMATION AND MODIFICATION OF MESOSCOPIC STRUCTURES ON GRAPHITE (HOPG) AND SILICON SURFACES BY MEANS OF SCANNING TUNNELING MICROSCOPY. Surface Review and Letters, 1996, 03, 961-967.	1.1	1
68	A spectroscopic study of the layered structure in Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> . Journal of Molecular Structure, 1997, 404, 157-162.	3.6	1
69	Modelling the adsorption and imaging of C <sub>60</sub> molecules on a graphite substrate. European Physical Journal D, 1999, 49, 1625-1629.	0.4	1
70	Atomic image of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+x</sub> cleaved surface. Physica C: Superconductivity and Its Applications, 2003, 387, 221-224.	1.2	1
71	Correlation between structural and magnetic properties in wedged Ti/Co multilayers. Physica Status Solidi A, 2003, 196, 173-176.	1.7	1
72	Very thin layers prepared by laser ablation from Bi/sub 2/Te/sub 3/ target. , 0, , .		1

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73	Nanostructure characterization of (SmS) <sub>1.19</sub> TaS <sub>2</sub> by means of STM/STS. Journal of Crystal Growth, 2006, 297, 7-9.	1.5	1
74	STM/STS investigations of titanium oxide nanostructures on au substrate. Materials Letters, 2007, 61, 4818-4820.	2.6	1
75	STM/STS characterization of platinum silicide nanostructures grown on a Pt(111) surface. Applied Surface Science, 2010, 256, 4215-4219.	6.1	1
76	Method of carbon-based electrode analysis by conductive atomic force microscopy. Micro and Nano Letters, 2014, 9, 69-72.	1.3	1
77	Electronics of Ba adsorbed on Ge(001). Applied Surface Science, 2019, 481, 1474-1482.	6.1	1
78	Superparamagnetic Grains as Source of Giant Magnetoresistance Effect in Discontinuous Co/Ag Multilayers. Acta Physica Polonica A, 1997, 91, 269-272.	0.5	1
79	Investigation of Sliding Friction on the Ferroic Crystals Surface. , 1997, , 269-273.		1
80	Exchange Coupling Effects in Naturally Oxidised Ultrathin Iron Film. Acta Physica Polonica A, 2018, 133, 601-604.	0.5	1
81	Scanning tunneling microscopy and spectroscopy study of Nd <sub>2-x</sub> Ce <sub>x</sub> CuO <sub>4-y</sub> . Physica C: Superconductivity and Its Applications, 1997, 282-287, 1503-1504.	1.2	0
82	Surface analysis of PrBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> single crystals using scanning tunneling spectroscopy and microscopy. Vacuum, 1999, 54, 215-219.	3.5	0
83	Pretransition phenomena on the surface of ferroelastic crystal. Journal of Physics Condensed Matter, 2000, 12, L685-L690.	1.8	0
84	Atomic Force Microscopy Investigation of Polystyrene and Polystyrene/PMMA Composites Surfaces. Molecular Crystals and Liquid Crystals, 2000, 354, 167-172.	0.3	0
85	Scanning probe microscopy/spectroscopy and its applications for nanotechnology. , 2001, , .		0
86	Scanning tunneling microscopy/spectroscopy of ferromagnetic Ni clusters on graphite and BSCCO high-Tc superconductor. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 202, 187-193.	4.7	0
87	VT STM Investigations of Ag Film Growth on Bi <sub>2</sub> Te <sub>3</sub> . AIP Conference Proceedings, 2003, , .	0.4	0
88	STS INVESTIGATIONS OF METALLIC NANOSTRUCTURES DEPOSITED ON Bi <sub>2</sub> Te <sub>3</sub> . Surface Review and Letters, 2007, 14, 357-360.	1.1	0
89	Preparation and Characterization of Ultraclean H:Si(111)-(1*1) Surfaces Studied by HREELS, AFM and STM-STS. E-Journal of Surface Science and Nanotechnology, 2009, 7, 557-562.	0.4	0
90	Investigations of titanium nanostructures on Si(111) 7Å-7 by means of scanning tunnelling microscopy and spectroscopy. Journal of Physics: Conference Series, 2009, 146, 012003.	0.4	0

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91	Scanning Probe Microscopy Characterization of Cluster Systems. , 2003, , 253-265.		0
92	MFM Investigations of [NiFe/Au/Co/Au]NMultilayers. Acta Physica Polonica A, 2009, 115, 220-222.	0.5	0
93	Study of the Electron Tunnelling in Single-Barrier Nanostructures Using the Conductive Atomic Force Microscopy. Journal of Advanced Microscopy Research, 2010, 5, 11-15.	0.3	0
94	Point-Contact I-V Characteristics of the Electroluminescent ZnS:Mn,Cu Thin Films Studied by STM. Acta Physica Polonica A, 1991, 79, 171-174.	0.5	0
95	Surface of BiSrCaCuO Single Crystal Observed by Means of Scanning Tunneling Microscope. Acta Physica Polonica A, 1991, 80, 717-722.	0.5	0
96	STM/AFM Images and Tunneling Spectra of Nd <sub>2-x</sub> Ce <sub>x</sub> CuO <sub>4-y</sub> Single Crystals. Acta Physica Polonica A, 1997, 92, 209-214.	0.5	0
97	Chemical Reactions and Electronic Functions of Carbon Cluster Arrays Studied by Scanning Tunneling Spectroscopy and High-resolution Electron Energy Loss Spectroscopy. Acta Physica Polonica A, 1998, 93, 317-322.	0.5	0
98	Functionalization of the Si(1 1 1) 7 Å– 7 substrate with coronene molecules using simple molecular source. Materials Science-Poland, 2017, 36, 86-92.	1.0	0
99	Exchange Coupling Effects in Naturally Oxidised Ultrathin Iron Film. Acta Physica Polonica A 133, 601 (2018), ERRATUM. Acta Physica Polonica A, 2019, 136, 571-571.	0.5	0