

Mariusz Krawiec

List of Publications by Year in descending order

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81
papers

1,218
citations

393982

19
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433756

31
g-index

83
all docs

83
docs citations

83
times ranked

1058
citing authors

#	ARTICLE	IF	CITATIONS
1	Nonacene Generated by On-Surface Dehydrogenation. ACS Nano, 2017, 11, 9321-9329.	7.3	107
2	Thermoelectric effects in strongly interacting quantum dot coupled to ferromagnetic leads. Physical Review B, 2006, 73, .	1.1	100
3	Structural model of the Au-induced Si(553) surface: Double Au rows. Physical Review B, 2010, 81, .	1.1	68
4	Electron transport through a strongly interacting quantum dot coupled to a normal metal and BCS superconductor. Superconductor Science and Technology, 2004, 17, 103-112.	1.8	57
5	Thermoelectric phenomena in a quantum dot asymmetrically coupled to external leads. Physical Review B, 2007, 75, .	1.1	49
6	Double nonequivalent chain structure on a vicinal Si(557)-Au surface. Physical Review B, 2006, 73, .	1.1	46
7	Formation of Silicene on Ultrathin Pb(111) Films. Journal of Physical Chemistry C, 2019, 123, 17019-17025.	1.5	40
8	Nonequilibrium Kondo effect in asymmetrically coupled quantum dots. Physical Review B, 2002, 66, .	1.1	37
9	Planar Silicene: A New Silicon Allotrope Epitaxially Grown by Segregation. Advanced Functional Materials, 2019, 29, 1906053.	7.8	37
10	Synthesis of Multilayer Silicene on Si(111)–Ag. Journal of Physical Chemistry C, 2017, 121, 27182-27190.	1.5	34
11	Spontaneous spin-polarized currents in superconductor-ferromagnetic metal heterostructures. Physical Review B, 2002, 66, .	1.1	26
12	Scanning tunneling microscopy of monoatomic gold chains on vicinal Si(335) surface: experimental and theoretical study. Physica Status Solidi (B): Basic Research, 2005, 242, 332-336.	0.7	26
13	Purely one-dimensional bands with a giant spin-orbit splitting: Pb nanoribbons on Si(553) surface. Scientific Reports, 2017, 7, 46215.	1.6	26
14	Current-carrying Andreev bound states in a superconductor-ferromagnet proximity system. Physical Review B, 2004, 70, .	1.1	24
15	Dirac fermions in silicene on Pb(111) surface. Physical Chemistry Chemical Physics, 2015, 17, 2246-2251.	1.3	24
16	Anisotropic atom diffusion on Si(553)-Au surface. Physical Review B, 2013, 87, .	1.1	23
17	Functionalization of group-14 two-dimensional materials. Journal of Physics Condensed Matter, 2018, 30, 233003.	0.7	23
18	One-Dimensional Diffusion of Pb Atoms on the Si(553)-Au Surface. Physical Review Letters, 2011, 107, 026101.	2.9	22

#	ARTICLE	IF	CITATIONS
19	Pb nanoribbons on the Si(553) surface. <i>Physical Review B</i> , 2013, 88, .	1.1	20
20	Antimonene on Pb quantum wells. <i>2D Materials</i> , 2019, 6, 045028.	2.0	18
21	Pb chains on reconstructed Si(335) surface. <i>Physical Review B</i> , 2009, 79, .	1.1	17
22	Oscillations in the Stability of Consecutive Chemical Bonds Revealed by Ion-Induced Desorption. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1336-1340.	7.2	17
23	Different spin textures in one-dimensional electronic bands on Si(553)-Au surface. <i>Applied Surface Science</i> , 2016, 373, 26-31.	3.1	17
24	Surface diffusion of Pb atoms on the Si(553)-Au surface in narrow quasi-one-dimensional channels. <i>Physical Review B</i> , 2014, 89, .	1.1	15
25	New Findings on Multilayer Silicene on Si(111)-Ag Template. <i>Materials</i> , 2019, 12, 2258.	1.3	14
26	Layered heterostructure of planar and buckled phases of silicene. <i>2D Materials</i> , 2021, 8, 035038.	2.0	14
27	In and Si adatoms on Si(111)-Au: Scanning tunneling microscopy and first-principles density functional calculations. <i>Physical Review B</i> , 2009, 80, .	1.1	13
28	Structural and electronic properties of double Pb chains on the Si(553)-Au surface. <i>Physical Review B</i> , 2011, 84, .	1.1	13
29	Silicene on metallic quantum wells: An efficient way of tuning silicene-substrate interaction. <i>Physical Review B</i> , 2015, 92, .	1.1	13
30	Charge on the quantum dot in the presence of tunneling current. <i>Solid State Communications</i> , 2000, 115, 141-144.	0.9	12
31	Compensation of the Kondo effect in quantum dots coupled to ferromagnetic leads within the equation of motion approach. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 346234.	0.7	12
32	Thermoelectric effects in strongly interacting quantum dot coupled to ferromagnetic leads. <i>Physica B: Condensed Matter</i> , 2006, 378-380, 933-934.	1.3	11
33	Silicene Nanoribbons on Pb-Reconstructed Si(111) Surface. <i>Condensed Matter</i> , 2016, 1, 8.	0.8	11
34	Electrical and mechanical controlling of the kinetic and magnetic properties of hydrogen atoms on free-standing silicene. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 284004.	0.7	11
35	Tuning the Electronic Structure of Hydrogen-Decorated Silicene. <i>Condensed Matter</i> , 2017, 2, 1.	0.8	11
36	Thermoelectric effects in STM tunneling through a monoatomic chain. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 2464-2469.	0.7	10

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37	First principles study of Si(3 3 5)â€“Au surface. Applied Surface Science, 2008, 254, 4318-4321.	3.1	10
38	Spin polarized current in the ground state of superconductor-ferromagnet-insulator trilayers. European Physical Journal B, 2003, 32, 163-176.	0.6	9
39	Tuning the surface structure and conductivity of niobium-doped rutile TiO ₂ single crystals via thermal reduction. Physical Chemistry Chemical Physics, 2017, 19, 30339-30350.	1.3	9
40	Andreev bound states in ferromagnet-superconductor nanostructures. Physica C: Superconductivity and Its Applications, 2003, 387, 7-12.	0.6	8
41	High resolution scanning tunneling spectroscopy of ultrathin Pb on Si(111)-(6Å—6) substrate. Surface Science, 2006, 600, 1641-1645.	0.8	8
42	Doping of the step-edge Si chain: Ag on a Si(557)-Au surface. Physical Review B, 2010, 82, .	1.1	8
43	Spinâ€“orbit splitting in the Si(335)â€“Au surface. Surface Science, 2013, 609, 44-47.	0.8	8
44	Quantum size effect in ultrathin Au films on the Si(111) surface. Applied Surface Science, 2015, 331, 512-518.	3.1	8
45	Thermally Stable and Highly Conductive SAMs on Ag Substrateâ€”The Impact of the Anchoring Group. Advanced Electronic Materials, 2021, 7, 2000947.	2.6	8
46	Thermoelectric Transport through a Quantum Dot Coupled to a Normal Metal and BCS Superconductor. Acta Physica Polonica A, 2008, 114, 115-122.	0.2	8
47	Origin of spontaneous currents in a superconductorâ€“ferromagnetic proximity system. Physica C: Superconductivity and Its Applications, 2006, 437-438, 7-10.	0.6	7
48	Electron transport through a strongly correlated monoatomic chain. Surface Science, 2006, 600, 1697-1701.	0.8	7
49	Spilling of electronic states in Pb quantum wells. Physical Review B, 2016, 93, .	1.1	7
50	Spin-polarized gapped Dirac spectrum of unsupported silicene. Applied Surface Science, 2016, 373, 45-50.	3.1	7
51	Structural model of silicene-like nanoribbons on a Pb-reconstructed Si(111) surface. Beilstein Journal of Nanotechnology, 2017, 8, 1836-1843.	1.5	7
52	On-surface synthesis of a phenylene analogue of nonacene. Chemical Communications, 2022, 58, 4063-4066.	2.2	6
53	Superconductivity in correlated systems: Constraint quantization of slave bosons. Physical Review B, 1999, 59, 9500-9507.	1.1	5
54	STM tunneling through a quantum wire with a side-attached impurity. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 154-161.	0.9	5

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55	Electronic stabilization of the Si(111)5 Å— 2Au surface: Pb and Si adatoms. Journal of Physics Condensed Matter, 2012, 24, 095002.	0.7	5
56	Adsorption and diffusion of atoms on the Si(335)Au surface. Surface Science, 2014, 622, 9-15.	0.8	5
57	Experimental evidence of a new class of massless fermions. Nanoscale Horizons, 2020, 5, 679-682.	4.1	5
58	Protecting Au-stabilized vicinal Si surfaces from degradation: Graphene on the Si(553)Au surface. Applied Surface Science, 2014, 304, 44-49.	3.1	4
59	Early Stage of Sb Ultra-Thin Film Growth: Crystal Structure and Electron Band Structure. Condensed Matter, 2016, 1, 11.	0.8	4
60	Partially embedded Pb chains on a vicinal Si(113) surface. Physical Review B, 2020, 101, .	1.1	4
61	Evidence of sp ² -like Hybridization of Silicon Valence Orbitals in Thin and Thick Si Grown on $\hat{1}\pm$ -Phase Si(111)3 Å— 3Bi. Materials, 2022, 15, 1730.	1.3	4
62	Array of double AuAg chains on the Si(557) surface. Applied Surface Science, 2010, 256, 4813-4817.	3.1	3
63	Rehybridization-induced charge density oscillations in the long-range corrugated silicene. Physical Chemistry Chemical Physics, 2017, 19, 14269-14275.	1.3	3
64	Hut-shaped lead nanowires with one-dimensional electronic properties. Physical Review B, 2020, 102, .	1.1	3
65	Molecular Structure and Electronic Properties of <i>para</i> -Hexaphenyl Monolayer on Atomically Flat Rutile TiO ₂ (110). Journal of Physical Chemistry C, 2020, 124, 5681-5689.	1.5	3
66	Magnetism in Au-Supported Planar Silicene. Nanomaterials, 2021, 11, 2568.	1.9	3
67	Spectral Functions of the Quantum Dot Coupled to Normal and/or Superconducting Leads. Acta Physica Polonica A, 2000, 97, 197-200.	0.2	3
68	$\hat{1}\pm$ -state TM induced by impurities with a repulsive interaction. Physica Status Solidi (B): Basic Research, 2005, 242, 438-442.	0.7	2
69	Superconducting pairing amplitude and local density of states in presence of repulsive centers. Physica B: Condensed Matter, 2006, 378-380, 434-436.	1.3	2
70	Particle-hole asymmetry in the scanning tunneling spectroscopy of the high temperature superconductors. Physica Status Solidi (B): Basic Research, 2007, 244, 2448-2452.	0.7	2
71	Oscillation in the stability of consecutive chemical bonds at the molecule-metal interface – the case of ionic bonding. Physical Chemistry Chemical Physics, 2019, 21, 13411-13414.	1.3	2
72	Evidence for Electronically Isolated Atomic Chains: SbPb Structures on the Si(553) Surface. Journal of Physical Chemistry C, 2021, 125, 15061-15068.	1.5	2

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73	Spontaneous Currents in a Ferromagnet-Normal Metal-Superconductor Trilayer. Acta Physica Polonica A, 2006, 109, 507-512.	0.2	2
74	Residual Kondo effect in quantum dot coupled to half-metallic ferromagnets. Journal of Physics Condensed Matter, 2006, 18, 6923-6936.	0.7	1
75	Undercover diffusion of atoms: Pb on Si(5â€‰%5â€‰%3)-Au surface covered by graphene. Journal of Physics Condensed Matter, 2015, 27, 125003.	0.7	1
76	Do Van Hove Singularities in Leads Influence Tunneling Current through Quantum Dot?. Acta Physica Polonica A, 1998, 94, 411-414.	0.2	1
77	Defects in two-dimensional elemental materials beyond graphene. , 2022, , 43-88.		1
78	Properties of the $\tilde{\Gamma}$ state induced by impurities in a d-wave superconductor. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1066-1067.	0.6	0
79	Resolving the complex structure of molecular networks. Nanotechnology, 2016, 27, 032502.	1.3	0
80	Coexistence of two gold-induced one-dimensional structures on a single terrace of the Si(11 11 13). Applied Surface Science, 2022, 573, 151501.	3.1	0
81	II.2 Cuprate and other unconventional superconductors. , 2007, , 317-324.		0