Mariusz Krawiec

List of Publications by Year
in descending order

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81	1,218	394421	434195
papers	citations	19 h-index	31 g-index

83	83	83	1058
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nonacene Generated by On-Surface Dehydrogenation. ACS Nano, 2017, 11, 9321-9329.	14.6	107
2	Thermoelectric effects in strongly interacting quantum dot coupled to ferromagnetic leads. Physical Review B, 2006, 73, .	3.2	100
3	Structural model of the Au-induced Si(553) surface: Double Au rows. Physical Review B, 2010, 81, .	3.2	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.	3.5	57
5	Thermoelectric phenomena in a quantum dot asymmetrically coupled to external leads. Physical Review B, 2007, 75, .	3.2	49
6	Double nonequivalent chain structure on a vicinal Si(557)-Au surface. Physical Review B, 2006, 73, .	3.2	46
7	Formation of Silicene on Ultrathin Pb(111) Films. Journal of Physical Chemistry C, 2019, 123, 17019-17025.	3.1	40
8	Nonequilibrium Kondo effect in asymmetrically coupled quantum dots. Physical Review B, 2002, 66, .	3.2	37
9	Planar Silicene: A New Silicon Allotrope Epitaxially Grown by Segregation. Advanced Functional Materials, 2019, 29, 1906053.	14.9	37
10	Synthesis of Multilayer Silicene on Si(111)â^š3 Ã— â^š3-Ag. Journal of Physical Chemistry C, 2017, 121, 27182-27190.	3.1	34
11	Spontaneous spin-polarized currents in superconductor-ferromagnetic metal heterostructures. Physical Review B, 2002, 66, .	3.2	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.	1.5	26
13	Purely one-dimensional bands with a giant spin-orbit splitting: Pb nanoribbons on Si(553) surface. Scientific Reports, 2017, 7, 46215.	3.3	26
14	Current-carrying Andreev bound states in a superconductor-ferromagnet proximity system. Physical Review B, 2004, 70, .	3.2	24
15	Dirac fermions in silicene on Pb(111) surface. Physical Chemistry Chemical Physics, 2015, 17, 2246-2251.	2.8	24
16	Anisotropic atom diffusion on Si(553)-Au surface. Physical Review B, 2013, 87, .	3.2	23
17	Functionalization of group-14 two-dimensional materials. Journal of Physics Condensed Matter, 2018, 30, 233003.	1.8	23
18	One-Dimensional Diffusion of Pb Atoms on the Si(553)-Au Surface. Physical Review Letters, 2011, 107, 026101.	7.8	22

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19	Pb nanoribbons on the Si(553) surface. Physical Review B, 2013, 88, .	3.2	20
20	Antimonene on Pb quantum wells. 2D Materials, 2019, 6, 045028.	4.4	18
21	Pb chains on reconstructed Si(335) surface. Physical Review B, 2009, 79, .	3.2	17
22	Oscillations in the Stability of Consecutive Chemical Bonds Revealed by Ionâ€Induced Desorption. Angewandte Chemie - International Edition, 2015, 54, 1336-1340.	13.8	17
23	Different spin textures in one-dimensional electronic bands on Si(553)-Au surface. Applied Surface Science, 2016, 373, 26-31.	6.1	17
24	Surface diffusion of Pb atoms on the Si(553)-Au surface in narrow quasi-one-dimensional channels. Physical Review B, 2014, 89, .	3.2	15
25	New Findings on Multilayer Silicene on Si(111)âˆš3Ã—âˆš3R30Â°â€“Ag Template. Materials, 2019, 12, 2258.	2.9	14
26	Layered heterostructure of planar and buckled phases of silicene. 2D Materials, 2021, 8, 035038.	4.4	14
27	In and Si adatoms onSi(111)5Ã—2-Au: Scanning tunneling microscopy and first-principles density functional calculations. Physical Review B, 2009, 80, .	3.2	13
28	Structural and electronic properties of double Pb chains on the Si(553)-Au surface. Physical Review B, 2011, 84, .	3.2	13
29	Silicene on metallic quantum wells: An efficient way of tuning silicene-substrate interaction. Physical Review B, 2015, 92, .	3.2	13
30	Charge on the quantum dot in the presence of tunneling current. Solid State Communications, 2000, 115, 141-144.	1.9	12
31	Compensation of the Kondo effect in quantum dots coupled to ferromagnetic leads within the equation of motion approach. Journal of Physics Condensed Matter, 2007, 19, 346234.	1.8	12
32	Thermoelectric effects in strongly interacting quantum dot coupled to ferromagnetic leads. Physica B: Condensed Matter, 2006, 378-380, 933-934.	2.7	11
33	Silicene Nanoribbons on Pb-Reconstructed Si(111) Surface. Condensed Matter, 2016, 1, 8.	1.8	11
34	Electrical and mechanical controlling of the kinetic and magnetic properties of hydrogen atoms on free-standing silicene. Journal of Physics Condensed Matter, 2016, 28, 284004.	1.8	11
35	Tuning the Electronic Structure of Hydrogen-Decorated Silicene. Condensed Matter, 2017, 2, 1.	1.8	11
36	Thermoelectric effects in STM tunneling through a monoatomic chain. Physica Status Solidi (B): Basic Research, 2007, 244, 2464-2469.	1.5	10

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37	First principles study of Si(3 3 5)â€“Au surface. Applied Surface Science, 2008, 254, 4318-4321.	6.1	10
38	Spin polarized current in the ground state of superconductor-ferromagnet-insulator trilayers. European Physical Journal B, 2003, 32, 163-176.	1.5	9
39	Tuning the surface structure and conductivity of niobium-doped rutile TiO₂ single crystals via thermal reduction. Physical Chemistry Chemical Physics, 2017, 19, 30339-30350.	2.8	9
40	Andreev bound states in ferromagnet-superconductor nanostructures. Physica C: Superconductivity and Its Applications, 2003, 387, 7-12.	1.2	8
41	High resolution scanning tunneling spectroscopy of ultrathin Pb on Si(111)-(6Ã—6) substrate. Surface Science, 2006, 600, 1641-1645.	1.9	8
42	Doping of the step-edge Si chain: Ag on a Si(557)-Au surface. Physical Review B, 2010, 82, .	3.2	8
43	Spinâ€“orbit splitting in the Si(335)â€“Au surface. Surface Science, 2013, 609, 44-47.	1.9	8
44	Quantum size effect in ultrathin Au films on the Si(111) surface. Applied Surface Science, 2015, 331, 512-518.	6.1	8
45	Thermally Stable and Highly Conductive SAMs on Ag Substrateâ€”The Impact of the Anchoring Group. Advanced Electronic Materials, 2021, 7, 2000947.	5.1	8
46	Thermoelectric Transport through a Quantum Dot Coupled to a Normal Metal and BCS Superconductor. Acta Physica Polonica A, 2008, 114, 115-122.	0.5	8
47	Origin of spontaneous currents in a superconductorâ€“ferromagnetic proximity system. Physica C: Superconductivity and Its Applications, 2006, 437-438, 7-10.	1.2	7
48	Electron transport through a strongly correlated monoatomic chain. Surface Science, 2006, 600, 1697-1701.	1.9	7
49	Spilling of electronic states in Pb quantum wells. Physical Review B, 2016, 93, .	3.2	7
50	Spin-polarized gapped Dirac spectrum of unsupported silicene. Applied Surface Science, 2016, 373, 45-50.	6.1	7
51	Structural model of silicene-like nanoribbons on a Pb-reconstructed Si(111) surface. Beilstein Journal of Nanotechnology, 2017, 8, 1836-1843.	2.8	7
52	On-surface synthesis of a phenylene analogue of nonacene. Chemical Communications, 2022, 58, 4063-4066.	4.1	6
53	Superconductivity in correlated systems: Constraint quantization of slave bosons. Physical Review B, 1999, 59, 9500-9507.	3.2	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.	2.1	5

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55	Electronic stabilization of the Si(111)5 Ã— 2â€“Au surface: Pb and Si adatoms. Journal of Physics Condensed Matter, 2012, 24, 095002.	1.8	5
56	Adsorption and diffusion of atoms on the Si(335)â€“Au surface. Surface Science, 2014, 622, 9-15.	1.9	5
57	Experimental evidence of a new class of massless fermions. Nanoscale Horizons, 2020, 5, 679-682.	8.0	5
58	Protecting Au-stabilized vicinal Si surfaces from degradation: Graphene on the Si(553)â€“Au surface. Applied Surface Science, 2014, 304, 44-49.	6.1	4
59	Early Stage of Sb Ultra-Thin Film Growth: Crystal Structure and Electron Band Structure. Condensed Matter, 2016, 1, 11.	1.8	4
60	Partially embedded Pb chains on a vicinal Si(113) surface. Physical Review B, 2020, 101, .	3.2	4
61	Evidence of sp2-like Hybridization of Silicon Valence Orbitals in Thin and Thick Si Grown on Î±-Phase Si(111)âˆš3 Ã— âˆš3R30Â°-Bi. Materials, 2022, 15, 1730.	2.9	4
62	Array of double Auâ€“Ag chains on the Si(557) surface. Applied Surface Science, 2010, 256, 4813-4817.	6.1	3
63	Rehybridization-induced charge density oscillations in the long-range corrugated silicene. Physical Chemistry Chemical Physics, 2017, 19, 14269-14275.	2.8	3
64	Hut-shaped lead nanowires with one-dimensional electronic properties. Physical Review B, 2020, 102, .	3.2	3
65	Molecular Structure and Electronic Properties of para-Hexaphenyl Monolayer on Atomically Flat Rutile TiO₂(110). Journal of Physical Chemistry C, 2020, 124, 5681-5689.	3.1	3
66	Magnetism in Au-Supported Planar Silicene. Nanomaterials, 2021, 11, 2568.	4.1	3
67	Spectral Functions of the Quantum Dot Coupled to Normal and/or Superconducting Leads. Acta Physica Polonica A, 2000, 97, 197-200.	0.5	3
68	â€Ï€-stateâ€™ induced by impurities with a repulsive interaction. Physica Status Solidi (B): Basic Research, 2005, 242, 438-442.	1.5	2
69	Superconducting pairing amplitude and local density of states in presence of repulsive centers. Physica B: Condensed Matter, 2006, 378-380, 434-436.	2.7	2
70	Particleâ€“hole asymmetry in the scanning tunneling spectroscopy of the high temperature superconductors. Physica Status Solidi (B): Basic Research, 2007, 244, 2448-2452.	1.5	2
71	Oscillation in the stability of consecutive chemical bonds at the moleculeâ€“metal interface â€“ the case of ionic bonding. Physical Chemistry Chemical Physics, 2019, 21, 13411-13414.	2.8	2
72	Evidence for Electronically Isolated Atomic Chains: Sbâ€“Pb Structures on the Si(553) Surface. Journal of Physical Chemistry C, 2021, 125, 15061-15068.	3.1	2

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73	Spontaneous Currents in a Ferromagnet-Normal Metal-Superconductor Trilayer. Acta Physica Polonica A, 2006, 109, 507-512.	0.5	2
74	Residual Kondo effect in quantum dot coupled to half-metallic ferromagnets. Journal of Physics Condensed Matter, 2006, 18, 6923-6936.	1.8	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.	1.8	1
76	Do Van Hove Singularities in Leads Influence Tunneling Current through Quantum Dot?. Acta Physica Polonica A, 1998, 94, 411-414.	0.5	1
77	Defects in two-dimensional elemental materials beyond graphene. , 2022, , 43-88.		1
78	Properties of the Ï€ state induced by impurities in a d-wave superconductor. Physica C: Superconductivity and Its Applications, 2007, 460-462, 1066-1067.	1.2	0
79	Resolving the complex structure of molecular networks. Nanotechnology, 2016, 27, 032502.	2.6	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.	6.1	0
81	II.2 Cuprate and other unconventional superconductors. , 2007, , 317-324.		0