Piotr BÅ‚oÅ„ski

List of Publications by Year
in descending order

42 papers	1,695 citations	394421 19 h-index	289244 40 g-index
42 all docs	42 docs citations	42 times ranked	2459 citing authors

#	Article	IF	Citations
1	Nitrogen doped graphene with diamond-like bonds achieves unprecedented energy density at high power in a symmetric sustainable supercapacitor. Energy and Environmental Science, 2022, 15, 740-748.	30.8	51
2	Graphene Lattices with Embedded Transition-Metal Atoms and Tunable Magnetic Anisotropy Energy: Implications for Spintronic Devices. ACS Applied Nano Materials, 2022, 5, 1562-1573.	5.0	13
3	OsPd bimetallic dimer pushes the limit of magnetic anisotropy in atom-sized magnets for data storage. Nanotechnology, 2022, 33, 215001.	2.6	3
4	OsPd bimetallic dimer pushes the limit of magnetic anisotropy in atom-sized magnets for data storage. Nanotechnology, 2022, , .	2.6	0
5	Large magnetic anisotropy in an OsIr dimer anchored in defective graphene. Nanotechnology, 2021, 32, 230001.	2.6	10
6	On-Surface Synthesis of One-Dimensional Coordination Polymers with Tailored Magnetic Anisotropy. ACS Applied Materials & Interfaces, 2021, 13, 32393-32401.	8.0	14
7	Anchoring of single-platinum-adatoms on cyanographene: Experiment and theory. Applied Materials Today, 2020, 18, 100462.	4.3	14
8	Thermally induced intra-molecular transformation and metalation of free-base porphyrin on Au(111) surface steered by surface confinement and ad-atoms. Nanoscale Advances, 2020, 2, 2986-2991.	4.6	8
9	Tailoring Electronic and Magnetic Properties of Graphene by Phosphorus Doping. ACS Applied Materials & Interfaces, 2020, 12, 34074-34085.	8.0	20
10	Intrinsic photoluminescence of amine-functionalized graphene derivatives for bioimaging applications. Applied Materials Today, 2019, 17, 112-122.	4.3	25
11	Microwave Energy Drives â€œOnâ€“Offâ€“Onâ€•Spinâ€Switch Behavior in Nitrogenâ€Doped Graphene. Advanced Materials, 2019, 31, e1902587.	21.0	15
12	Variability of Câ€“F Bonds Governs the Formation of Specific Structural Motifs in Fluorinated Graphenes. Journal of Physical Chemistry C, 2019, 123, 27896-27903.	3.1	22
13	Alkynylation of graphene via the Sonogashira Câ€“C cross-coupling reaction on fluorographene. Chemical Communications, 2019, 55, 1088-1091.	4.1	23
14	Tuning the magnetic properties of graphene derivatives by functional group selection. Physical Chemistry Chemical Physics, 2019, 21, 12697-12703.	2.8	8
15	Band-Edge Engineering at the Carbon Dotâ€“TiO₂ Interface by Substitutional Boron Doping. Journal of Physical Chemistry C, 2019, 123, 5980-5988.	3.1	6
16	Thermally reduced fluorographenes as efficient electrode materials for supercapacitors. Nanoscale, 2019, 11, 21364-21375.	5.6	15
17	Morphologyâ€Dependent Magnetism in Nanographene: Beyond Nanoribbons. Advanced Functional Materials, 2018, 28, 1800592.	14.9	5
18	Emerging chemical strategies for imprinting magnetism in graphene and related 2D materials for spintronic and biomedical applications. Chemical Society Reviews, 2018, 47, 3899-3990.	38.1	161

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19	Zigzag sp² Carbon Chains Passing through an sp³ Framework: A Driving Force toward Room-Temperature Ferromagnetic Graphene. ACS Nano, 2018, 12, 12847-12859.	14.6	19
20	Non-covalent control of spin-state in metal-organic complex by positioning on N-doped graphene. Nature Communications, 2018, 9, 2831.	12.8	68
21	Graphene: Morphology-Dependent Magnetism in Nanographene: Beyond Nanoribbons (Adv. Funct.) Tj ETQq1 1 0.784314 rgBT /Overlo	14.9	0
22	Doping with Graphitic Nitrogen Triggers Ferromagnetism in Graphene. Journal of the American Chemical Society, 2017, 139, 3171-3180.	13.7	202
23	Room temperature organic magnets derived from sp3 functionalized graphene. Nature Communications, 2017, 8, 14525.	12.8	112
24	Cyanographene and Graphene Acid: Emerging Derivatives Enabling High-Yield and Selective Functionalization of Graphene. ACS Nano, 2017, 11, 2982-2991.	14.6	133
25	First-principles study of the mechanism of wettability transition of defective graphene. Nanotechnology, 2017, 28, 064003.	2.6	11
26	Sulfur Doping Induces Strong Ferromagnetic Ordering in Graphene: Effect of Concentration and Substitution Mechanism. Advanced Materials, 2016, 28, 5045-5053.	21.0	94
27	Ferromagnetism: Sulfur Doping Induces Strong Ferromagnetic Ordering in Graphene: Effect of Concentration and Substitution Mechanism (Adv. Mater. 25/2016). Advanced Materials, 2016, 28, 5139-5139.	21.0	5
28	Free Energy Assessment of Water Structures and Their Dissociation on Ru(0001). Journal of Physical Chemistry C, 2015, 119, 5478-5483.	3.1	4
29	On the interplay between geometrical structure and magnetic anisotropy: a relativistic density-functional study of mixed Ptâ€“Co and Ptâ€“Fe trimers and tetramers in the gas-phase and supported on graphene. Journal of Physics Condensed Matter, 2015, 27, 046002.	1.8	5
30	Magnetic anisotropy of heteronuclear dimers in the gas phase and supported on graphene: relativistic density-functional calculations. Journal of Physics Condensed Matter, 2014, 26, 146002.	1.8	8
31	First-principles study of LiBH4 nanoclusters interaction with models of porous carbon and silica scaffolds. International Journal of Hydrogen Energy, 2014, 39, 9848-9853.	7.1	15
32	How Theoretical Simulations Can Address the Structure and Activity of Nanoparticles. Topics in Catalysis, 2013, 56, 1262-1272.	2.8	16
33	Pt3 and Pt4 clusters on graphene monolayers supported on a Ni(111) substrate: Relativistic density-functional calculations. Journal of Chemical Physics, 2012, 137, 044710.	3.0	13
34	Pt on graphene monolayers supported on a Ni(111) substrate: Relativistic density-functional calculations. Journal of Chemical Physics, 2012, 136, 074701.	3.0	17
35	Geometric and magnetic properties of Pt clusters supported on graphene: Relativistic density-functional calculations. Journal of Chemical Physics, 2011, 134, 154705.	3.0	60
36	Magneto-structural properties and magnetic anisotropy of small transition-metal clusters: a first-principles study. Journal of Physics Condensed Matter, 2011, 23, 136001.	1.8	32

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37	Strong spinâ€“orbit effects in small Pt clusters: Geometric structure,magnetic isomers and anisotropy. Journal of Chemical Physics, 2011, 134, 034107.	3.0	79
38	Magnetocrystalline anisotropy energy of Co and Fe adatoms on the (111) surfaces of Pd and Rh. Physical Review B, 2010, 81, .	3.2	82
39	Magnetic anisotropy of Fe and Co ultrathin films deposited on Rh(111) and Pt(111) substrates: An experimental and first-principles investigation. Physical Review B, 2010, 82, .	3.2	106
40	Magnetic anisotropy of transition-metal dimers: Density functional calculations. Physical Review B, 2009, 79, .	3.2	114
41	Density-functional theory of the magnetic anisotropy of nanostructures: an assessment of different approximations. Journal of Physics Condensed Matter, 2009, 21, 426001.	1.8	53
42	Dissociative adsorption of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>molecules on O-precovered Fe(110) and Fe(100): Density-functional calculations. Physical Review B, 2008, 77, .	3.2	34