Å½eljko V Å ljivanÄanin

List of Publications by Year
in descending order

62 papers	4,932 citations	257450 24 h-index	128289 60 g-index
62 all docs	62 docs citations	62 times ranked	6891 citing authors

#	Article	IF	Citations
1	Bandgap opening in graphene induced by patterned hydrogen adsorption. Nature Materials, 2010, 9, 315-319.	27.5	1,344
2	Universality in Heterogeneous Catalysis. Journal of Catalysis, 2002, 209, 275-278.	6.2	1,167
3	Metastable Structures and Recombination Pathways for Atomic Hydrogen on the Graphite (0001) Surface. Physical Review Letters, 2006, 96, 156104.	7.8	296
4	Clustering of Chemisorbed H(D) Atoms on the Graphite (0001) Surface due to Preferential Sticking. Physical Review Letters, 2006, 97, 186102.	7.8	260
5	Magnetic remanence in single atoms. Science, 2016, 352, 318-321.	12.6	259
6	Oxygen Dissociation at Pt Steps. Physical Review Letters, 2001, 87, 056103.	7.8	189
7	Chiral Recognition of Organic Molecules by Atomic Kinks on Surfaces. Physical Review Letters, 2006, 96, 056103.	7.8	120
8	Oxygen dissociation at close-packed Pt terraces, Pt steps, and Ag-covered Pt steps studied with density functional theory. Surface Science, 2002, 515, 235-244.	1.9	114
9	Extended atomic hydrogen dimer configurations on the graphite(0001) surface. Journal of Chemical Physics, 2009, 131, 084706.	3.0	80
10	Electronic and optical properties of reduced graphene oxide. Journal of Materials Chemistry C, 2015, 3, 7632-7641.	5.5	78
11	Oxidation States of Mn Atoms at Clean and Al₂O₃-Covered LiMn₂O₄(001) Surfaces. Journal of Physical Chemistry C, 2010, 114, 4756-4759.	3.1	73
12	Controlling Hydrogenation of Graphene on Ir(111). ACS Nano, 2013, 7, 3823-3832.	14.6	69
13	Density Functional Theory Study of Enantiospecific Adsorption at Chiral Surfaces. Journal of the American Chemical Society, 2002, 124, 14789-14794.	13.7	64
14	Probing Enantioselectivity with X-Ray Photoelectron Spectroscopy and Density Functional Theory. Physical Review Letters, 2007, 98, 136102.	7.8	58
15	Binding of atomic oxygen on graphene from small epoxy clusters to a fully oxidized surface. Carbon, 2013, 54, 482-488.	10.3	50
16	Adsorption of O2 and NO on Pd nanocrystals supported on Al2O3/NiAl(): overlayer and edge structures. Surface Science, 2002, 505, 25-38.	1.9	44
17	Supported Fe Nanoclusters: Evolution of Magnetic Properties with Cluster Size. Physical Review Letters, 2003, 90, 247202.	7.8	43
18	First-principles study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î³</mml:mi><mml:msub><mml:mrow><mml:mtext>-Al</mml:mtext></mml:mrow><mml:mn>2</mml:mn></mml:msub><mml:mrow><mml:mi>O</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:math> surface. Physical Review B, 2009, 79, .	3.2	43

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19	Structure and stability of small H clusters on graphene. Physical Review B, 2011, 83, .	3.2	41
20	Edge state magnetism in zigzag-interfaced graphene via spin susceptibility measurements. Scientific Reports, 2015, 5, 13382.	3.3	39
21	H2dissociation at defected Cu: Preference for reaction at vacancy and kink sites. Physical Review B, 2002, 65, .	3.2	37
22	Hydrogen Evolution Reaction over Single-Atom Catalysts Based on Metal Adatoms at Defected Graphene and h-BN. Journal of Physical Chemistry C, 2020, 124, 16860-16867.	3.1	32
23	Formic Acid Synthesis by CO₂ Hydrogenation over Singleâ€Atom Catalysts Based on Ru and Cu Embedded in Graphene. ChemistrySelect, 2018, 3, 2631-2637.	1.5	31
24	Magnetism in graphene induced by hydrogen adsorbates. Chemical Physics Letters, 2012, 541, 70-74.	2.6	27
25	Adsorption sites of individual metal atoms on ultrathin MgO(100) films. Physical Review B, 2017, 96, .	3.2	25
26	Sodium PyroxeneNaTiSi2O6: Possible Haldane Spin-1 Chain System. Physical Review Letters, 2004, 93, 036401.	7.8	23
27	CO oxidation on fully oxygen covered Ru(0001): Role of step edges. Physical Review B, 2010, 81, .	3.2	23
28	Transition from Mn4+ to Mn3+ induced by surface reconstruction at Î»-MnO2(001). Journal of Chemical Physics, 2010, 133, 204701.	3.0	21
29	Atomic Structure, Electronic Properties, and Reactivity of In-Plane Heterostructures of Graphene and Hexagonal Boron Nitride. Journal of Physical Chemistry C, 2014, 118, 16104-16112.	3.1	20
30	Distinct Reaction Mechanisms in the Catalytic Oxidation of Carbon Monoxide on Rh(110): Scanning Tunneling Microscopy and Density Functional Theory Studies. Physical Review Letters, 2001, 87, 196104.	7.8	18
31	Band picture of the spin-Peierls cuprateCuGeO3. Physical Review B, 1997, 56, 4432-4438.	3.2	17
32	Electronic properties of an epitaxial silicon oxynitride layer on a 6H-SiC(0001) surface: A first-principles investigation. Applied Physics Letters, 2007, 91, 061930.	3.3	17
33	Interfacial Charge Transfer Transitions in Colloidal TiO₂ Nanoparticles Functionalized with Salicylic acid and 5-Aminosalicylic acid: A Comparative Photoelectron Spectroscopy and DFT Study. Journal of Physical Chemistry C, 2019, 123, 29057-29066.	3.1	17
34	Effect of Carbon Adsorption on the Isomer Stability of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ir</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>Clusters. Physical Review Letters, 2007, 99, 165501.	7.8	16
35	Electronic properties of the partially hydrogenated armchair carbon nanotubes. Physical Review B, 2011, 84, .	3.2	16
36	DNA Sequencing with Single-Stranded DNA Rectification in a Nanogap Gated by N-Terminated Carbon Nanotube Electrodes. ACS Applied Nano Materials, 2020, 3, 3034-3043.	5.0	15

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37	Band structure of spin-Peierls cuprate CuGeO3. Journal of Physics Condensed Matter, 1995, 7, 4549-4559.	1.8	14
38	Magnetism in nanoscale graphite flakes as seen via electron spin resonance. Physical Review B, 2012, 85, .	3.2	13
39	Analysis of energy gap opening in graphene oxide. Journal of Physics: Conference Series, 2014, 526, 012003.	0.4	13
40	Graphene/ <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mm heterostructures as templates for growing two-dimensional metals: Predictions from ab initio calculations. Physical Review Materials, 2017, 1, .	2.4	13
41	Linear hydrogen adsorbate structures on graphite induced by self-assembled molecular monolayers. Carbon, 2012, 50, 2052-2056.	10.3	12
42	Ab initiostudy of structural and electronic properties of partially reduced graphene oxide. Physica Scripta, 2014, T162, 014019.	2.5	9
43	Magnetic moments of transition metals overlayers on fcc Ni surface. Journal of Physics Condensed Matter, 1998, 10, 8679-8686.	1.8	8
44	Role of Adsorbed H, C, O, and CO on the Atomic Structure of Free and MgO(100)-Supported Ir₄Clusters: An ab Initio Study. Journal of Physical Chemistry C, 2010, 114, 15653-15660.	3.1	7
45	Planar versus three-dimensional growth of metal nanostructures at graphene. Carbon, 2016, 96, 216-222.	10.3	7
46	Translational energy and state resolved observations of D and D2 thermally desorbing from D clusters chemisorbed on graphite. Journal of Chemical Physics, 2009, 131, 244707.	3.0	6
47	Supported nanoclusters: Preadsorbates tuning catalytic activity. Physical Review B, 2005, 71, .	3.2	5
48	Effect of adsorbed H atoms on magnetism in monoatomic Fe wires at Ir(100). Physical Review B, 2010, 81, .	3.2	5
49	Field Effect and Local Gating in Nitrogenâ€Terminated Nanopores (NtNP) and Nanogaps (NtNG) in Graphene. ChemPhysChem, 2021, 22, 336-341.	2.1	5
50	Understanding trends in lithium binding at two-dimensional materials. Physical Review Materials, 2018, 2, .	2.4	5
51	Comment on â€œOscillation of the Fe and Co Magnetic Moments near the Sharp(1âˆ’10)Fe/CoInterfaceâ€. Physical Review Letters, 1998, 80, 1568-1568.	7.8	4
52	Spin Excitations in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>4</mml:mn><mml:mi>f</mml:mi><mml:mo>âˆ’</mml:mo><mml:mn>3</mml:mn><mml:mi>d</mml:mi></m Heterodimer on MgO. Physical Review Letters, 2018, 121, 257202.	7.8	4
53	PopoviÄ‡etÂal.Reply:. Physical Review Letters, 2006, 96, .	7.8	3
54	Atomic structure and spin magnetism of self-assembled Co nanowires onPt(332). Physical Review B, 2006, 74, .	3.2	3

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55	MAGNETIC MOMENTS NEAR THE SHARP INTERFACES OF FERROMAGNETIC MATERIALS. International Journal of Modern Physics B, 2002, 16, 3655-3669.	2.0	2
56	Nitrogen adsorption on a supported iron nanocluster. Vacuum, 2004, 74, 173-177.	3.5	2
57	Nitrogen fixation at passivated Fe nanoclusters supported by an oxide surface: Identification of viable reaction routes using density functional calculations. Physical Review B, 2009, 80, .	3.2	2
58	Single-Atom Catalysts Supported by Graphene and Hexagonal Boron Nitride: Structural Stability in the Oxygen Environment. Journal of Physical Chemistry C, 2022, 126, 8637-8644.	3.1	2
59	Electronic properties of bilayered manganite<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>Ca</mml:mtext></mml:mrow><mml:mrow><mml:mn>2.5</mml:mn> Physical Review B, 2008, 77, .	3.2	1
60	Collective Diffusion of Gold Clusters and F-Centers at MgO(100) and CaO(100) Surfaces. Journal of Physical Chemistry C, 2014, 118, 28720-28724.	3.1	1
61	First-principles study of nickel reactivity under two-dimensional cover: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ni</mml:mi><mml:mn>2</mml:mn></mml:mrow> mathvariant="normal">C</mml:mi></mml:mrow></mml:math> formation at rotated graphene/Ni(111) interface. Physical Review Materials, 2021, 5, .	2.4	0
62	Ab-initio and Monte Carlo study of Fe-based two-dimensional magnets at borophene supported by Ag(111) surface. Physical Review Materials, 2021, 5, .	2.4	0