

Yuriy S Dedkov

List of Publications by Year in descending order

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138
papers

5,118
citations

87723

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140
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140
docs citations

140
times ranked

5790
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#	ARTICLE	IF	CITATIONS
1	Mott-Hubbard insulating state for the layered van der Waals FePX_3 (X: S, Se) as revealed by NEXAFS and resonant photoelectron spectroscopy. <i>Scientific Reports</i> , 2022, 12, 735.	1.6	13
2	Realization of the electric-field driven one-material-based magnetic tunnel junction using van der Waals antiferromagnetic MnPX_3 (X: S, Se). <i>Journal of Materials Chemistry C</i> , 2022, 10, 3812-3818.	2.7	10
3	Electronic and Magnetic Properties of the Graphene/Y/Co(0001) Interfaces: Insights from the Density Functional Theory Analysis. <i>ACS Omega</i> , 2022, 7, 7304-7310.	1.6	1
4	Graphene Layer Morphology as an Indicator of the Metal Alloy Formation at the Interface. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 19-25.	2.1	4
5	Correlations in the Electronic Structure of van der Waals NiPS_3 Crystals: An X-ray Absorption and Resonant Photoelectron Spectroscopy Study. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2400-2405.	2.1	21
6	Adsorption of water on the pristine and defective semiconducting 2D CrPX_3 monolayers (X: S, Se). <i>Journal of Physics Condensed Matter</i> , 2021, 33, .	0.7	10
7	Second Floor of Flatland: Epitaxial Growth of Graphene on Hexagonal Boron Nitride. <i>Small</i> , 2021, 17, 2102747.	5.2	1
8	Second Floor of Flatland: Epitaxial Growth of Graphene on Hexagonal Boron Nitride (<i>Small</i> 36/2021). <i>Small</i> , 2021, 17, 2170188.	5.2	0
9	Influence of surface and subsurface Co-Ir alloy on the electronic properties of graphene. <i>Carbon</i> , 2021, 183, 251-258.	5.4	2
10	Topological Quasi-2D Semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$: Insights into Electronic Structure from NEXAFS and Resonant Photoelectron Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 9807-9811.	2.1	4
11	Adsorption of Water Molecules on Pristine and Defective NiPX_3 (X: S, Se) Monolayers. <i>Advanced Theory and Simulations</i> , 2021, 4, 2100182.	1.3	8
12	Electronic, magnetic and optical properties of MnPX_3 (X = S, Se) monolayers with and without chalcogen defects: a first-principles study. <i>RSC Advances</i> , 2020, 10, 851-864.	1.7	57
13	Intercalation of Mn in graphene/Cu(111) interface: insights to the electronic and magnetic properties from theory. <i>Scientific Reports</i> , 2020, 10, 21684.	1.6	6
14	Dirac Fermions in Half-Metallic Ferromagnetic Mixed $\text{Cr}_{1-x}\text{M}_x\text{PSe}_3$ Monolayers. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000228.	1.3	18
15	Epitaxial graphene/Ge interfaces: a minireview. <i>Nanoscale</i> , 2020, 12, 11416-11426.	2.8	22
16	To the synthesis and characterization of layered metal phosphorus triselenides proposed for electrochemical sensing and energy applications. <i>Chemical Physics Letters</i> , 2020, 754, 137627.	1.2	12
17	Tip-Induced Inversion of the Chirality of a Molecule's Adsorption Potential Probed by the Switching Directionality. <i>Advanced Materials</i> , 2020, 32, 1907390.	11.1	3
18	Quantum Well States for Graphene Spin-Texture Engineering. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1594-1600.	2.1	5

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19	Unoccupied electronic band structure of pentagonal Si nanoribbons on Ag(110). <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 17811-17820.	1.3	9
20	Electronic Structure and Magnetic Properties of Graphene/Ni ₃ Mn/Ni(111) Trilayer. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4994-5002.	1.5	3
21	Intercalation of O ₂ and N ₂ in the Graphene/Ni Interfaces of Different Morphologies. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16137-16145.	1.5	3
22	Dirac Electron Behavior for Spin-Up Electrons in Strongly Interacting Graphene on Ferromagnetic Mn ₅ Ge ₃ . <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3212-3216.	2.1	7
23	The graphene/n-Ge(110) interface: structure, doping, and electronic properties. <i>Nanoscale</i> , 2018, 10, 6088-6098.	2.8	28
24	Layer-by-Layer Decoupling of Twisted Graphene Sheets Epitaxially Grown on a Metal Substrate. <i>Small</i> , 2018, 14, e1703701.	5.2	17
25	Graphene Properties on Metals. , 2018, , 138-144.		0
26	Realistic Large-Scale Modeling of Rashba and Induced Spin-Orbit Effects in Graphene/High-Z Metal Systems. <i>Advanced Theory and Simulations</i> , 2018, 1, 1800063.	1.3	11
27	Decoupling of graphene from Ni(111) via formation of an interfacial NiO layer. <i>Carbon</i> , 2017, 121, 10-16.	5.4	34
28	Spectroscopic and DFT studies of graphene intercalation systems on metals. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2017, 219, 77-85.	0.8	12
29	Local electronic properties of the graphene-protected giant Rashba-split BiAg ₂ surface. <i>Physical Review B</i> , 2017, 95, .		
30	Adsorption of Water and Ammonia on Graphene: Evidence for Chemisorption from X-ray Absorption Spectra. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3668-3672.	2.1	21
31	Comment on "Spin-Orbit Coupling Induced Gap in Graphene on Pt(111) with Intercalated Pb Monolayer". <i>ACS Nano</i> , 2017, 11, 10627-10629.	7.3	2
32	Growth and electronic structure of graphene on semiconducting Ge(110). <i>Carbon</i> , 2017, 122, 428-433.	5.4	25
33	Restoring a nearly free-standing character of graphene on Ru(0001) by oxygen intercalation. <i>Scientific Reports</i> , 2016, 6, 20285.	1.6	46
34	Structural and electronic properties of graphene nanoflakes on Au(111) and Ag(111). <i>Scientific Reports</i> , 2016, 6, 23439.	1.6	51
35	Adsorption of NO ₂ on WSe ₂ : DFT and photoelectron spectroscopy studies. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 364003.	0.7	12
36	Atomic force spectroscopy and density-functional study of graphene corrugation on Ru(0001). <i>Physical Review B</i> , 2016, 93, .	1.1	10

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37	Structural and electronic properties of epitaxial multilayer h-BN on Ni(111) for spintronics applications. <i>Scientific Reports</i> , 2016, 6, 23547.	1.6	80
38	Understanding the growth mechanism of graphene on Ge/Si(001) surfaces. <i>Scientific Reports</i> , 2016, 6, 31639.	1.6	44
39	Scanning probe microscopy and spectroscopy of graphene on metals. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 451-468.	0.7	23
40	Graphene growth and properties on metal substrates. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 303002.	0.7	86
41	Understanding the origin of band gap formation in graphene on metals: graphene on Cu/Ir(111). <i>Scientific Reports</i> , 2015, 4, 5704.	1.6	74
42	Graphene on Rh(111): Combined DFT, STM, and NC-AFM Studies. <i>Procedia Engineering</i> , 2014, 93, 8-16.	1.2	8
43	General approach to understanding the electronic structure of graphene on metals. <i>Materials Research Express</i> , 2014, 1, 035603.	0.8	43
44	Electronic and Magnetic Properties of the Graphene/Eu/Ni(111) Hybrid System. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2014, 69, 297-302.	0.7	5
45	Calculation of the X-Ray emission K and L 2,3 bands of metallic magnesium and aluminum with allowance for multielectron effects. <i>Journal of Experimental and Theoretical Physics</i> , 2014, 118, 11-17.	0.2	2
46	<i>In Situ</i> Fabrication Of Quasi-Free-Standing Epitaxial Graphene Nanoflakes On Gold. <i>ACS Nano</i> , 2014, 8, 3735-3742.	7.3	50
47	Multichannel scanning probe microscopy and spectroscopy of graphene moiré structures. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3894.	1.3	24
48	Spectroscopy and microscopy of graphene on metals. <i>Vakuum in Forschung Und Praxis</i> , 2014, 26, 19-25.	0.0	1
49	Artificially lattice-mismatched graphene/metal interface: Graphene/Ni/Ir(111). <i>Physical Review B</i> , 2013, 87, .	1.1	53
50	Structural and electronic properties of graphene-based junctions for spin-filtering: The graphene/Al/Ni(111) intercalation-like system. <i>Applied Surface Science</i> , 2013, 267, 8-11.	3.1	14
51	Specific many-electron effects in X-ray spectra of simple metals and graphene. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 6749.	1.3	6
52	Electronic structure and imaging contrast of graphene moiré on metals. <i>Scientific Reports</i> , 2013, 3, 1072.	1.6	85
53	Theoretical description of X-ray absorption spectroscopy of the graphene-metal interfaces. <i>Journal of Chemical Physics</i> , 2013, 138, 154706.	1.2	33
54	Ge(001) As a Template for Long-Range Assembly of π -Stacked Coronene Rows. <i>Langmuir</i> , 2012, 28, 3840-3844.	1.6	16

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55	Graphene on metallic surfaces: problems and perspectives. Physical Chemistry Chemical Physics, 2012, 14, 13502.	1.3	157
56	Graphene on Rh(111): Scanning tunneling and atomic force microscopies studies. Applied Physics Letters, 2012, 100, .	1.5	99
57	Size-Selected Epitaxial Nanoislands Underneath Graphene Moiré on Rh(111). ACS Nano, 2012, 6, 151-158.	7.3	105
58	EELS study of the epitaxial graphene/Ni(1 1 1) and graphene/Au/Ni(1 1 1) systems. Carbon, 2012, 50, 183-191.	5.4	49
59	Electronic structure and magnetic properties of the graphene/Fe/Ni(111) intercalation-like system. Physical Chemistry Chemical Physics, 2011, 13, 7534.	1.3	110
60	Structural and electronic properties of the graphene/Al/Ni(111) intercalation system. New Journal of Physics, 2011, 13, 113028.	1.2	103
61	On the physisorption of water on graphene: a CCSD(T) study. Physical Chemistry Chemical Physics, 2011, 13, 12041.	1.3	172
62	Epitaxial Graphene on Metals. Nanoscience and Technology, 2011, , 189-234.	1.5	4
63	Electronic and Magnetic Properties of the Graphene- Ferromagnet Interfaces: Theory vs. Experiment. , 2011, , .		4
64	Structural and electronic properties of Fe ₃ O ₄ /graphene/Ni(111) junctions. Physica Status Solidi - Rapid Research Letters, 2011, 5, 226-228.	1.2	16
65	Graphene on ferromagnetic surfaces and its functionalization with water and ammonia. Nanoscale Research Letters, 2011, 6, 214.	3.1	28
66	Nucleation and growth of nickel nanoclusters on graphene Moiré on Rh(111). Applied Physics Letters, 2010, 96, .	1.5	119
67	Electronic and magnetic properties of the graphene-ferromagnet interface. New Journal of Physics, 2010, 12, 125004.	1.2	186
68	Electronic structure of thin ytterbium layers on W(110): A photoemission study. Surface Science, 2010, 604, 269-275.	0.8	2
69	Preparation and photoemission investigation of bulklike \pm -Mn films on W(110). Physical Review B, 2010, 81, .	1.1	2
70	X-ray absorption and magnetic circular dichroism of graphene/Ni(111). Journal of Applied Physics, 2010, 107, .	1.1	20
71	Induced magnetism of carbon atoms at the graphene/Ni(111) interface. Applied Physics Letters, 2010, 96, .	1.5	169
72	Photoemission study of electronic structure of the half-metallic ferromagnet $\text{Co}_{1-x}\text{Mn}_x$ Physical Review B, 2009, 79, .	1.1	63

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73	Charge Transport in Proteins Probed by Resonant Photoemission. Physical Review Letters, 2009, 102, 098101.	2.9	17
74	Magnetic-dichroism study of iron silicides formed at the Fe/Si(100) interface. Applied Physics A: Materials Science and Processing, 2009, 94, 467-471.	1.1	6
75	Investigation of the stability of Mn ₁₂ single molecule magnets. Applied Physics A: Materials Science and Processing, 2009, 94, 491-495.	1.1	11
76	High-resolution Russian-German beamline at BESSY. Applied Physics A: Materials Science and Processing, 2009, 94, 501-505.	1.1	55
77	Spin-resolved photoemission of a ferromagnetic Mn ₅ Ge ₃ (0001) epilayer on Ge(111). Journal of Applied Physics, 2009, 105, 073909.	1.1	30
78	Spin-resolved photoelectron spectroscopy of rare-earth overlayers on rare-earth and d-metal substrates. Journal of Magnetism and Magnetic Materials, 2008, 320, e231-e234.	1.0	0
79	Magnetic linear dichroism in photoemission from an ultrathin iron silicide film. Physics of the Solid State, 2008, 50, 553-556.	0.2	3
80	A possible source of spin-polarized electrons: The inert graphene/Ni(111) system. Applied Physics Letters, 2008, 92, .	1.5	140
81	Rashba Effect in the Graphene/Ni(111) System. Physical Review Letters, 2008, 100, 107602.	2.9	431
82	Method of measurements with random perturbation: Application in photoemission experiments. Review of Scientific Instruments, 2008, 79, 036103.	0.6	1
83	Spin-resolved photoelectron spectroscopy of Fe ₃ O ₄ revisited. Journal of Physics Condensed Matter, 2008, 20, 142201.	0.7	23
84	Electronic structure of shandite Co ₃ Sn ₂ S ₂ . Journal of Physics: Conference Series, 2008, 100, 072011.	0.3	20
85	Defect induced ferromagnetism in Co-doped ZnO thin films. Journal of Physics: Conference Series, 2008, 100, 042034.	0.3	18
86	Magnetic ordering of the Fe/Si interface and its initial formation. Journal of Applied Physics, 2008, 104, 104914.	1.1	40
87	Dispersion of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" > \langle \text{mml:mrow} > \langle \text{mml:mn} > 4 < / \text{mml:mn} > \langle \text{mml:mi} > f < / \text{mml:mi} > < / \text{mml:mrow} > \langle \text{mml:math} > \text{impurity states in photoemission spectra of Yb/W(110). Physical Review B, 2008, 78, .$	1.1	3
88	Graphene-protected iron layer on Ni(111). Applied Physics Letters, 2008, 93, .	1.5	133
89	Scanning tunneling spectroscopy on Mn ₁₂ single molecule magnets grafted on Au(111). Journal of Physics: Conference Series, 2008, 100, 052070.	0.3	0
90	$\langle i \rangle$ - and spin-dependent hybridization effects in Ce monolayer. Journal of Physics: Conference Series, 2008, 100, 072022.	0.3	1

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91	Electronic structure of thin ytterbium layers on W(110). Journal of Physics: Conference Series, 2008, 100, 072023.	0.3	0
92	Observation of ferromagnetic surface of paramagnetic YCo ₂ . Journal of Physics: Conference Series, 2008, 100, 072028.	0.3	1
93	Evidence for the short-period oscillations in spin-resolved photoemission of thin Cr(110) films. Journal of Physics: Conference Series, 2008, 100, 072029.	0.3	0
94	Electronic structure of Mn ₁₂ derivatives on the clean and functionalized Au surface. Physical Review B, 2007, 75, .	1.1	70
95	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{YCo} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle :$ Intrinsic Magnetic Surface of a Paramagnetic Bulk Material. Physical Review Letters, 2007, 99, 047204.	2.9	21
96	Intrinsic ferromagnetism versus phase segregation in Mn-doped Ge. Journal of Applied Physics, 2007, 101, 103912.	1.1	50
97	Defect induced low temperature ferromagnetism in Zn _{1-x} CoxO films. Journal of Applied Physics, 2007, 101, 073904.	1.1	44
98	Spin dependence of 4f hybridization: A spin-resolved resonant photoemission study of Ce ²⁺ Fe(110). Physical Review B, 2007, 76, .	1.1	4
99	Magnetite: a search for the half-metallic state. Journal of Physics Condensed Matter, 2007, 19, 315217.	0.7	87
100	Growth and morphology of the epitaxial Fe(110)/MgO(111)/Fe(110) Trilayers. Surface Science, 2007, 601, 2166-2170.	0.8	5
101	Surface magnetism of YCo ₂ . Surface Science, 2007, 601, 4339-4342.	0.8	1
102	Spin-dependent hybridization and magnetic order of Ce/Fe(110) studied by spin-resolved resonant photoemission. Surface Science, 2007, 601, 4329-4333.	0.8	1
103	Room temperature ferromagnetic (Zn,Co)O epitaxial films obtained by low-temperature MOCVD process. Thin Solid Films, 2007, 515, 8490-8494.	0.8	11
104	Preparation of the subnanometer thick epitaxial Al ₂ O ₃ (0001) layers on Fe(110) for magnetic tunnel junctions. Applied Surface Science, 2007, 253, 3860-3864.	3.1	11
105	Divalent state of ytterbium in YbFe ₄ Sb ₁₂ filled skutterudite. Physica C: Superconductivity and Its Applications, 2007, 460-462, 698-699.	0.6	11
106	Evidence for the short-period oscillations in spin-resolved photoemission of thin Cr(110) films. European Physical Journal B, 2007, 57, 15-19.	0.6	5
107	Spin-resolved photoelectron spectroscopy of the MgO/Fe(110) system. Applied Physics A: Materials Science and Processing, 2006, 82, 489-493.	1.1	13
108	Observation of surface state on ultrathin fcc ³ Mn(111) layer. Surface Science, 2006, 600, 4328-4331.	0.8	4

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109	Spectroscopic studies of the electronic properties of regularly arrayed two-dimensional protein layers. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S131-S144.	0.7	17
110	Wave-Vector Conservation upon Hybridization of d and Valence-Band States Observed in Photoemission Spectra of a Ce Monolayer on W(110). <i>Physical Review Letters</i> , 2006, 96, 026404.	2.9	25
111	Ferromagnetic coupling in $\text{Eu}^{\sim}\text{Gd}(0001)$ observed by spin-resolved photoelectron spectroscopy. <i>Physical Review B</i> , 2006, 73, .	1.1	5
112	Electronic structure, magnetism, and spin-dependent transport of CeMnNi_4 . <i>Physical Review B</i> , 2006, 73, .	1.1	13
113	Magnetic dichroism in angular resolved XPS on the Fe(110) surface. <i>European Physical Journal B</i> , 2005, 47, 315-318.	0.6	1
114	Correlations in the electronic structure of half-metallic ferromagnetic CrO_2 films: An x-ray absorption and resonant photoemission spectroscopy study. <i>Physical Review B</i> , 2005, 72, .	1.1	57
115	Short-period oscillations in photoemission from thin films of Cr(100). <i>Physical Review B</i> , 2005, 72, .	1.1	4
116	Growth and Room Temperature Spin Polarization of Half-metallic Epitaxial CrO_2 and Fe_3O_4 Thin Films. <i>Lecture Notes in Physics</i> , 2005, , 289-308.	0.3	4
117	Photoemission and Near-Edge X-Ray Absorption Fine Structure Studies of the Bacterial Surface Protein Layer of <i>Bacillusphaericus</i> NCTC 9602. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18620-18627.	1.2	19
118	Surface electronic structure of the $\text{Fe}_3\text{O}_4(100)$: Evidence of a half-metal to metal transition. <i>Physical Review B</i> , 2005, 72, .	1.1	223
119	Overlapping XAFS L Spectra of 3d Metals A New Application of the Regularization Method. <i>Physica Scripta</i> , 2005, , 194.	1.2	4
120	Electronic Structure of Regular Bacterial Surface Layers. <i>Physical Review Letters</i> , 2004, 93, 238103.	2.9	39
121	Electronic structure of the $\text{Fe}_3\text{O}_4(111)$ surface. <i>Physical Review B</i> , 2004, 70, .	1.1	31
122	Oscillations in photoemission from Cr/Fe/W(1 0 0) and Cr/W(1 0 0). <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 1147-1148.	1.0	0
123	Growth and structure of Mn on Au(111) at room temperature. <i>Surface Science</i> , 2003, 529, L275-L280.	0.8	36
124	In situ oxidation of epitaxial Fe(110) films grown on $\text{Mo}(110)/\text{Al}_2\text{O}_3(11\bar{2}0)$ substrates. <i>Surface Science</i> , 2003, 536, 61-66.	0.8	5
125	Quantum-well states in bilayers of Ag and Au on W(110). <i>Surface Science</i> , 2003, 540, L638-L642.	0.8	9
126	Preparation, structure, and electronic properties of Fe_3O_4 films on the $\text{Fe}(110)/\text{Mo}(110)/\text{Al}_2\text{O}_3(11\bar{2}0)$ substrate. <i>Physical Review B</i> , 2003, 68, .	1.1	24

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127	Evidence for the half-metallic ferromagnetic state of Fe ₃ O ₄ by spin-resolved photoelectron spectroscopy. Physical Review B, 2002, 65, .	1.1	410
128	Growth and spin-resolved photoemission spectroscopy of the epitaxial $\hat{\pm}$ -Al ₂ O ₃ /Fe(110) system. Applied Physics Letters, 2002, 81, 2584-2586.	1.5	10
129	Room-temperature observation of high-spin polarization of epitaxial CrO ₂ (100) island films at the Fermi energy. Applied Physics Letters, 2002, 80, 4181-4183.	1.5	84
130	Intercalation of copper underneath a monolayer of graphite on Ni(111). Physical Review B, 2001, 64, .	1.1	154
131	Silicon interaction with the (0001) surface of La and Gd layers. Physics of the Solid State, 2001, 43, 380-385.	0.2	0
132	Formation of intercalate-like systems of graphite-ytterbium monolayers on the Ni(111) surface. Physics of the Solid State, 2000, 42, 1170-1175.	0.2	7
133	Extended energy range of Ag quantum-well states in Ag(111)/Au(111)/W(110). Physical Review B, 2000, 62, R2303-R2306.	1.1	26
134	Formation of an intercalation-like system by intercalation of C ₆₀ molecules underneath a graphite monolayer on Ni(111). Surface Science, 2000, 452, 1-8.	0.8	20
135	Synthesis of a weakly bonded graphite monolayer on Ni(111) by intercalation of silver. Journal of Physics Condensed Matter, 1999, 11, 8453-8458.	0.7	62
136	Observation of high spin polarization of half-metallic ferromagnetic Fe ₃ O ₄ and CrO ₂ by spin-resolved photoelectron spectroscopy at room temperature. , 0, , .		0
137	Modification of the Magnetic and Electronic Properties of the Grapheneâ€Ni(111) Interface via Halogens Intercalation. Advanced Theory and Simulations, 0, , 2100319.	1.3	1
138	Electronic and Magnetic Properties of The Graphene/RE/Ni(111) (RE: La, Yb) Intercalationâ€Like Interfaces: A DFT Analysis. Advanced Theory and Simulations, 0, , 2100621.	1.3	1