Yuriy S Dedkov

List of Publications by Citations

138 papers	4,532 citations	36 h-index	65 g-index
140 ext. papers	4,832 ext. citations	4 avg, IF	5.59 L-index

#	Paper	IF	Citations
138	Rashba effect in the graphene/ni(111) system. *Physical Review Letters*, **2008**, 100, 107602	7.4	387
137	Evidence for the half-metallic ferromagnetic state of Fe3O4 by spin-resolved photoelectron spectroscopy. *Physical Review B*, **2002**, 65,	3.3	383
136	Surface electronic structure of the Fe3O4(100): Evidence of a half-metal to metal transition. *Physical Review B*, **2005**, 72,	3.3	205
135	Electronic and magnetic properties of the graphene/ferromagnet interface. *New Journal of Physics*, **2010**, 12, 125004	2.9	167
134	Induced magnetism of carbon atoms at the graphene/Ni(111) interface. *Applied Physics Letters*, **2010**, 96, 012504	3.4	155
133	On the physisorption of water on graphene: a CCSD(T) study. *Physical Chemistry Chemical Physics*, **2011**, 13, 12041-7	3.6	152
132	Intercalation of copper underneath a monolayer of graphite on Ni(111). *Physical Review B*, **2001**, 64,	3.3	149
131	Graphene on metallic surfaces: problems and perspectives. *Physical Chemistry Chemical Physics*, **2012**, 14, 13502-14	3.6	144
130	A possible source of spin-polarized electrons: The inert graphene/Ni(111) system. *Applied Physics Letters*, **2008**, 92, 052506	3.4	132
129	Graphene-protected iron layer on Ni(111). *Applied Physics Letters*, **2008**, 93, 022509	3.4	128
128	Nucleation and growth of nickel nanoclusters on graphene Moiré on Rh(111). *Applied Physics Letters*, **2010**, 96, 093115	3.4	112
127	Electronic structure and magnetic properties of the graphene/Fe/Ni111 intercalation-like system. *Physical Chemistry Chemical Physics*, **2011**, 13, 7534-9	3.6	100
126	Size-selected epitaxial nanoislands underneath graphene moiré on Rh(111). *ACS Nano*, **2012**, 6, 151-8	16.7	97
125	Structural and electronic properties of the graphene/Al/Ni(111) intercalation system. *New Journal of Physics*, **2011**, 13, 113028	2.9	95
124	Graphene on Rh(111): Scanning tunneling and atomic force microscopies studies. *Applied Physics Letters*, **2012**, 100, 241606	3.4	88
123	Magnetite: a search for the half-metallic state. *Journal of Physics Condensed Matter*, **2007**, 19, 315217	1.8	81
122	Electronic structure and imaging contrast of graphene moiré on metals. *Scientific Reports*, **2013**, 3, 1072	4.9	80

121	Room-temperature observation of high-spin polarization of epitaxial CrO2(100) island films at the Fermi energy. *Applied Physics Letters*, **2002**, 80, 4181-4183	3.4	79
120	Graphene growth and properties on metal substrates. *Journal of Physics Condensed Matter*, **2015**, 27, 303002	1.8	69
119	Electronic structure of Mn12 derivatives on the clean and functionalized Au surface. *Physical Review B*, **2007**, 75,	3.3	68
118	Understanding the origin of band gap formation in graphene on metals: graphene on Cu/Ir(111). *Scientific Reports*, **2014**, 4, 5704	4.9	67
117	Structural and electronic properties of epitaxial multilayer h-BN on Ni(111) for spintronics applications. *Scientific Reports*, **2016**, 6, 23547	4.9	67
116	Synthesis of a weakly bonded graphite monolayer on Ni(111) by intercalation of silver. *Journal of Physics Condensed Matter*, **1999**, 11, 8453-8458	1.8	57
115	Artificially lattice-mismatched graphene/metal interface: Graphene/Ni/Ir(111). *Physical Review B*, **2013**, 87,	3.3	49
114	In situ fabrication of quasi-free-standing epitaxial graphene nanoflakes on gold. *ACS Nano*, **2014**, 8, 3735-42	13.7	47
113	Photoemission study of electronic structure of the half-metallic ferromagnet Co3Sn2S2. *Physical Review B*, **2009**, 79,	3.3	46
112	Correlations in the electronic structure of half-metallic ferromagnetic CrO2 films: An x-ray absorption and resonant photoemission spectroscopy study. *Physical Review B*, **2005**, 72,	3.3	45
111	EELS study of the epitaxial graphene/Ni(111) and graphene/Au/Ni(111) systems. *Carbon*, **2012**, 50, 183-191	10.4	44
110	Structural and electronic properties of graphene nanoflakes on Au(111) and Ag(111). *Scientific Reports*, **2016**, 6, 23439	4.9	43
109	High-resolution Russian–German beamline at BESSY. *Applied Physics A: Materials Science and Processing*, **2009**, 94, 501-505	2.6	43
108	Intrinsic ferromagnetism versus phase segregation in Mn-doped Ge. *Journal of Applied Physics*, **2007**, 101, 103912	2.5	43
107	Defect induced low temperature ferromagnetism in Zn1−xCoxO films. *Journal of Applied Physics*, **2007**, 101, 073904	2.5	42
106	Restoring a nearly free-standing character of graphene on Ru(0001) by oxygen intercalation. *Scientific Reports*, **2016**, 6, 20285	4.9	39
105	Magnetic ordering of the Fe/Si interface and its initial formation. *Journal of Applied Physics*, **2008**, 104, 104914	2.5	38
104	Understanding the growth mechanism of graphene on Ge/Si(001) surfaces. *Scientific Reports*, **2016**, 6, 31639	4.9	37

103	General approach to understanding the electronic structure of graphene on metals. *Materials Research Express*, **2014**, 1, 035603	1.7	36
102	Electronic structure of regular bacterial surface layers. *Physical Review Letters*, **2004**, 93, 238103	7.4	35
101	Growth and structure of Mn on Au(111) at room temperature. *Surface Science*, **2003**, 529, L275-L280	1.8	34
100	Theoretical description of X-ray absorption spectroscopy of the graphene-metal interfaces. *Journal of Chemical Physics*, **2013**, 138, 154706	3.9	31
99	Decoupling of graphene from Ni(111) via formation of an interfacial NiO layer. *Carbon*, **2017**, 121, 10-16	10.4	30
98	Electronic structure of the Fe3O4(111) surface. *Physical Review B*, **2004**, 70,	3.3	27
97	Spin-resolved photoemission of a ferromagnetic Mn5Ge3(0001) epilayer on Ge(111). *Journal of Applied Physics*, **2009**, 105, 073909	2.5	26
96	Extended energy range of Ag quantum-well states in Ag(111)/Au(111)/W(110). *Physical Review B*, **2000**, 62, R2303-R2306	3.3	26
95	Wave-vector conservation upon hybridization of 4f and valence-band states observed in photoemission spectra of a Ce monolayer on W(110). *Physical Review Letters*, **2006**, 96, 026404	7.4	24
94	Multichannel scanning probe microscopy and spectroscopy of graphene moir structures. *Physical Chemistry Chemical Physics*, **2014**, 16, 3894-908	3.6	23
93	Scanning probe microscopy and spectroscopy of graphene on metals. *Physica Status Solidi (B): Basic Research*, **2015**, 252, 451-468	1.3	23
92	Spin-resolved photoelectron spectroscopy of Fe3O4 revisited. *Journal of Physics Condensed Matter*, **2008**, 20, 142201	1.8	23
91	Preparation, structure, and electronic properties of Fe3O4 films on the Fe(110)/Mo(110)/Al2O3(1120) substrate. *Physical Review B*, **2003**, 68,	3.3	23
90	Growth and electronic structure of graphene on semiconducting Ge(110). *Carbon*, **2017**, 122, 428-433	10.4	22
89	Graphene on ferromagnetic surfaces and its functionalization with water and ammonia. *Nanoscale Research Letters*, **2011**, 6, 214	5	22
88	Electronic, magnetic and optical properties of MnPX (X = S, Se) monolayers with and without chalcogen defects: a first-principles study.. *RSC Advances*, **2020**, 10, 851-864	3.7	22
87	The graphene/n-Ge(110) interface: structure, doping, and electronic properties. *Nanoscale*, **2018**, 10, 6088-6098	7.7	21
86	YCo2: intrinsic magnetic surface of a paramagnetic bulk material. *Physical Review Letters*, **2007**, 99, 047204	7.4	19

85	Defect induced ferromagnetism in Co-doped ZnO thin films. *Journal of Physics: Conference Series*, **2008**, 100, 042034	0.3	18
84	Photoemission and near-edge X-ray absorption fine structure studies of the bacterial surface protein layer of Bacillus sphaericus NCTC 9602. *Journal of Physical Chemistry B*, **2005**, 109, 18620-7	3.4	18
83	Formation of an intercalation-like system by intercalation of C60 molecules underneath a graphite monolayer on Ni(111). *Surface Science*, **2000**, 452, 1-8	1.8	18
82	X-ray absorption and magnetic circular dichroism of graphene/Ni(111). *Journal of Applied Physics*, **2010**, 107, 09E121	2.5	17
81	Ge(001) as a template for long-range assembly of stacked coronene rows. *Langmuir*, **2012**, 28, 3840-4	4	16
80	Spectroscopic studies of the electronic properties of regularly arrayed two-dimensional protein layers. *Journal of Physics Condensed Matter*, **2006**, 18, S131-S144	1.8	16
79	Layer-by-Layer Decoupling of Twisted Graphene Sheets Epitaxially Grown on a Metal Substrate. *Small*, **2018**, 14, e1703701	11	15
78	Adsorption of Water and Ammonia on Graphene: Evidence for Chemisorption from X-ray Absorption Spectra. *Journal of Physical Chemistry Letters*, **2017**, 8, 3668-3672	6.4	15
77	Charge transport in proteins probed by resonant photoemission. *Physical Review Letters*, **2009**, 102, 098101	7.4	15
76	Structural and electronic properties of graphene-based junctions for spin-filtering: The graphene/Al/Ni(1 1 1) intercalation-like system. *Applied Surface Science*, **2013**, 267, 8-11	6.7	14
75	Structural and electronic properties of Fe3O4/graphene/Ni(111) junctions. *Physica Status Solidi - Rapid Research Letters*, **2011**, 5, 226-228	2.5	14
74	Electronic structure, magnetism, and spin-dependent transport of CeMnNi4. *Physical Review B*, **2006**, 73,	3.3	13
73	Investigation of the stability of Mn12 single molecule magnets. *Applied Physics A: Materials Science and Processing*, **2009**, 94, 491-495	2.6	11
72	Electronic structure of shandite Co3Sn2S2. *Journal of Physics: Conference Series*, **2008**, 100, 072011	0.3	11
71	Divalent state of ytterbium in YbFe4Sb12 filled skutterudite. *Physica C: Superconductivity and Its Applications*, **2007**, 460-462, 698-699	1.3	11
70	Spin-resolved photoelectron spectroscopy of the MgO/Fe(110) system. *Applied Physics A: Materials Science and Processing*, **2006**, 82, 489-493	2.6	11
69	Epitaxial graphene/Ge interfaces: a minireview. *Nanoscale*, **2020**, 12, 11416-11426	7.7	10
68	Room temperature ferromagnetic (Zn,Co)O epitaxial films obtained by low-temperature MOCVD process. *Thin Solid Films*, **2007**, 515, 8490-8494	2.2	10

67	Preparation of the subnanometer thick epitaxial Al2O3(0001) layers on Fe(110) for magnetic tunnel junctions. *Applied Surface Science*, **2007**, 253, 3860-3864	6.7	10
66	Spectroscopic and DFT studies of graphene intercalation systems on metals. *Journal of Electron Spectroscopy and Related Phenomena*, **2017**, 219, 77-85	1.7	9
65	Adsorption of NO2 on WSe2: DFT and photoelectron spectroscopy studies. *Journal of Physics Condensed Matter*, **2016**, 28, 364003	1.8	9
64	Atomic force spectroscopy and density-functional study of graphene corrugation on Ru(0001). *Physical Review B*, **2016**, 93,	3.3	9
63	Growth and spin-resolved photoemission spectroscopy of the epitaxial Al2O3/Fe(110) system. *Applied Physics Letters*, **2002**, 81, 2584-2586	3.4	9
62	Correlations in the Electronic Structure of van der Waals NiPS Crystals: An X-ray Absorption and Resonant Photoelectron Spectroscopy Study. *Journal of Physical Chemistry Letters*, **2021**, 12, 2400-2405	6.4	9
61	Dirac Fermions in Half-Metallic Ferromagnetic Mixed Cr1MxPSe3 Monolayers. *Advanced Theory and Simulations*, **2020**, 3, 2000228	3.5	8
60	Quantum-well states in bilayers of Ag and Au on W(110). *Surface Science*, **2003**, 540, L638-L642	1.8	8
59	Unoccupied electronic band structure of pentagonal Si nanoribbons on Ag(110). *Physical Chemistry Chemical Physics*, **2019**, 21, 17811-17820	3.6	7
58	Graphene on Rh(111): Combined DFT, STM, and NC-AFM Studies. *Procedia Engineering*, **2014**, 93, 8-16		7
57	Formation of intercalate-like systems of graphite-ytterbium monolayers on the Ni(111) surface. *Physics of the Solid State*, **2000**, 42, 1170-1175	0.8	7
56	Realistic Large-Scale Modeling of Rashba and Induced SpinOrbit Effects in Graphene/High-Z-Metal Systems. *Advanced Theory and Simulations*, **2018**, 1, 1800063	3.5	6
55	Magnetic-dichroism study of iron silicides formed at the Fe/Si(100) interface. *Applied Physics A: Materials Science and Processing*, **2009**, 94, 467-471	2.6	6
54	Room Temperature Spin Polarization of Epitaxial Half-Metallic Fe3O4(111) and CrO2(100) Films. *Advances in Solid State Physics*, **2003**, 487-504		6
53	To the synthesis and characterization of layered metal phosphorus triselenides proposed for electrochemical sensing and energy applications. *Chemical Physics Letters*, **2020**, 754, 137627	2.5	5
52	Electronic and Magnetic Properties of the Graphene/Eu/Ni(111) Hybrid System. *Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences*, **2014**, 69, 297-302	1.4	5
51	Specific many-electron effects in X-ray spectra of simple metals and graphene. *Physical Chemistry Chemical Physics*, **2013**, 15, 6749-56	3.6	5
50	Growth and morphology of the epitaxial Fe(110)/MgO(111)/Fe(110) Trilayers. *Surface Science*, **2007**, 601, 2166-2170	1.8	5

49	Evidence for the short-period oscillations in spin-resolved photoemission of thin Cr(110) films. *European Physical Journal B*, **2007**, 57, 15-19	1.2	5
48	Ferromagnetic coupling in Eu□Gd(0001) observed by spin-resolved photoelectron spectroscopy. *Physical Review B*, **2006**, 73,	3.3	5
47	In situ oxidation of epitaxial Fe(110) films grown on Mo(110)/Al2O3(11□0) substrates. *Surface Science*, **2003**, 536, 61-66	1.8	5
46	Adsorption of water on the pristine and defective semiconducting 2D CrPmonolayers (: S, Se). *Journal of Physics Condensed Matter*, **2021**, 33,	1.8	5
45	Local electronic properties of the graphene-protected giant Rashba-split BiAg2 surface. *Physical Review B*, **2017**, 95,	3.3	4
44	Dirac Electron Behavior for Spin-Up Electrons in Strongly Interacting Graphene on Ferromagnetic MnGe. *Journal of Physical Chemistry Letters*, **2019**, 10, 3212-3216	6.4	4
43	Epitaxial Graphene on Metals. *Nanoscience and Technology*, **2011**, 189-234	0.6	4
42	Spin dependence of 4f hybridization: A spin-resolved resonant photoemission study of Ce□□e(110). *Physical Review B*, **2007**, 76,	3.3	4
41	Observation of surface state on ultrathin fcc □Mn(1 1 1) layer. *Surface Science*, **2006**, 600, 4328-4331	1.8	4
40	Overlapping XAFS L Spectra of 3d Metals A New Application of the Regularization Method. *Physica Scripta*, **2005**, 194	2.6	4
39	Short-period oscillations in photoemission from thin films of Cr(100). *Physical Review B*, **2005**, 72,	3.3	4
38	Growth and Room Temperature Spin Polarization of Half-metallic Epitaxial CrO2 and Fe3O4 Thin Films. *Lecture Notes in Physics*, **2005**, 289-308	0.8	4
37	Mott-Hubbard insulating state for the layered van der Waals [Formula: see text] (X: S, Se) as revealed by NEXAFS and resonant photoelectron spectroscopy.. *Scientific Reports*, **2022**, 12, 735	4.9	4
36	Adsorption of Water Molecules on Pristine and Defective NiPX3 (X: S, Se) Monolayers. *Advanced Theory and Simulations*, **2021**, 4, 2100182	3.5	4
35	Realization of the electric-field driven □ne-material□based magnetic tunnel junction using van der Waals antiferromagnetic MnPX3 (X: S, Se). *Journal of Materials Chemistry C*, **2022**, 10, 3812-3818	7.1	4
34	Electronic Structure and Magnetic Properties of Graphene/Ni3Mn/Ni(111) Trilayer. *Journal of Physical Chemistry C*, **2019**, 123, 4994-5002	3.8	3
33	Intercalation of O2 and N2 in the Graphene/Ni Interfaces of Different Morphologies. *Journal of Physical Chemistry C*, **2019**, 123, 16137-16145	3.8	3
32	Quantum Well States for Graphene Spin-Texture Engineering. *Journal of Physical Chemistry Letters*, **2020**, 11, 1594-1600	6.4	3

31	Magnetic linear dichroism in photoemission from an ultrathin iron silicide film. *Physics of the Solid State*, **2008**, 50, 553-556	0.8	3
30	Intercalation of Mn in graphene/Cu(111) interface: insights to the electronic and magnetic properties from theory. *Scientific Reports*, **2020**, 10, 21684	4.9	3
29	Graphene Layer Morphology as an Indicator of the Metal Alloy Formation at the Interface. *Journal of Physical Chemistry Letters*, **2021**, 12, 19-25	6.4	3
28	Calculation of the X-Ray emission K and L 2,3 bands of metallic magnesium and aluminum with allowance for multielectron effects. *Journal of Experimental and Theoretical Physics*, **2014**, 118, 11-17	1	2
27	Comment on "Spin-Orbit Coupling Induced Gap in Graphene on Pt(111) with Intercalated Pb Monolayer". *ACS Nano*, **2017**, 11, 10627-10629	16.7	2
26	Electronic and Magnetic Properties of the Graphene- Ferromagnet Interfaces: Theory vs. Experiment **2011**,		2
25	Preparation and photoemission investigation of bulklike □Mn films on W(110). *Physical Review B*, **2010**, 81,	3.3	2
24	Influence of surface and subsurface Co□r alloy on the electronic properties of graphene. *Carbon*, **2021**, 183, 251-258	10.4	2
23	Topological Quasi-2D Semimetal CoSnS: Insights into Electronic Structure from NEXAFS and Resonant Photoelectron Spectroscopy. *Journal of Physical Chemistry Letters*, **2021**, 12, 9807-9811	6.4	2
22	Tip-Induced Inversion of the Chirality of a Molecule's Adsorption Potential Probed by the Switching Directionality. *Advanced Materials*, **2020**, 32, e1907390	24	1
21	Method of measurements with random perturbation: application in photoemission experiments. *Review of Scientific Instruments*, **2008**, 79, 036103	1.7	1
20	Dispersion of 4f impurity states in photoemission spectra of Yb/W(110). *Physical Review B*, **2008**, 78,	3.3	1
19	Surface magnetism of YCo2. *Surface Science*, **2007**, 601, 4339-4342	1.8	1
18	Spin-dependent hybridization and magnetic order of Ce/Fe(110) studied by spin-resolved resonant photoemission. *Surface Science*, **2007**, 601, 4329-4333	1.8	1
17	Magnetic dichroism in angular resolved XPS on the Fe(110) surface. *European Physical Journal B*, **2005**, 47, 315-318	1.2	1
16	Modification of the Magnetic and Electronic Properties of the Graphene-Ni(111) Interface via Halogens Intercalation. *Advanced Theory and Simulations*,2100319	3.5	1
15	Electronic structure of thin ytterbium layers on W(110): A photoemission study. *Surface Science*, **2010**, 604, 269-275	1.8	0
14	Second Floor of Flatland: Epitaxial Growth of Graphene on Hexagonal Boron Nitride. *Small*, **2021**, 17, e2102747	11	0

13	Electronic and Magnetic Properties of the Graphene/Y/Co(0001) Interfaces: Insights from the Density Functional Theory Analysis.. *ACS Omega*, **2022**, 7, 7304-7310	3.9	0
12	Spectroscopy and microscopy of graphene on metals:. *Vakuum in Forschung Und Praxis*, **2014**, 26, 19-25	0.3	
11	Scanning tunneling spectroscopy on Mn12single molecule magnets grafted on Au(111). *Journal of Physics: Conference Series*, **2008**, 100, 052070	0.3	
10	k- and spin-dependent hybridization effects in Ce monolayer. *Journal of Physics: Conference Series*, **2008**, 100, 072022	0.3	
9	Electronic structure of thin ytterbium layers on W(110). *Journal of Physics: Conference Series*, **2008**, 100, 072023	0.3	
8	Observation of ferromagnetic surface of paramagnetic YCo2. *Journal of Physics: Conference Series*, **2008**, 100, 072028	0.3	
7	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	
6	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	2.8	
5	Oscillations in photoemission from Cr/Fe/W(1 0 0) and Cr/W(1 0 0). *Journal of Magnetism and Magnetic Materials*, **2004**, 272-276, 1147-1148	2.8	
4	Silicon interaction with the (0001) surface of La and Gd layers. *Physics of the Solid State*, **2001**, 43, 380-385	5.8	
3	Graphene Properties on Metals **2018**, 138-144		
2	Second Floor of Flatland: Epitaxial Growth of Graphene on Hexagonal Boron Nitride (Small 36/2021). *Small*, **2021**, 17, 2170188	11	
1	Electronic and Magnetic Properties of The Graphene/RE/Ni(111) (RE: La, Yb) Intercalation-Like Interfaces: A DFT Analysis. *Advanced Theory and Simulations*,2100621	3.5	