

# Yuriy S Dedkov

## List of Publications by Year in descending order

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138  
papers

5,118  
citations

87888

38  
h-index

91884

69  
g-index

140  
all docs

140  
docs citations

140  
times ranked

5790  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rashba Effect in the Graphene/Ni(111) System. Physical Review Letters, 2008, 100, 107602.	7.8	431
2	Evidence for the half-metallic ferromagnetic state of Fe <sub>3</sub> O <sub>4</sub> by spin-resolved photoelectron spectroscopy. Physical Review B, 2002, 65, .	3.2	410
3	Surface electronic structure of the Fe <sub>3</sub> O <sub>4</sub> (100): Evidence of a half-metal to metal transition. Physical Review B, 2005, 72, .	3.2	223
4	Electronic and magnetic properties of the graphene-ferromagnet interface. New Journal of Physics, 2010, 12, 125004.	2.9	186
5	On the physisorption of water on graphene: a CCSD(T) study. Physical Chemistry Chemical Physics, 2011, 13, 12041.	2.8	172
6	Induced magnetism of carbon atoms at the graphene/Ni(111) interface. Applied Physics Letters, 2010, 96, .	3.3	169
7	Graphene on metallic surfaces: problems and perspectives. Physical Chemistry Chemical Physics, 2012, 14, 13502.	2.8	157
8	Intercalation of copper underneath a monolayer of graphite on Ni(111). Physical Review B, 2001, 64, .	3.2	154
9	A possible source of spin-polarized electrons: The inert graphene/Ni(111) system. Applied Physics Letters, 2008, 92, .	3.3	140
10	Graphene-protected iron layer on Ni(111). Applied Physics Letters, 2008, 93, .	3.3	133
11	Nucleation and growth of nickel nanoclusters on graphene Moiré on Rh(111). Applied Physics Letters, 2010, 96, .	3.3	119
12	Electronic structure and magnetic properties of the graphene/Fe/Ni(111) intercalation-like system. Physical Chemistry Chemical Physics, 2011, 13, 7534.	2.8	110
13	Size-Selected Epitaxial Nanoislands Underneath Graphene Moiré on Rh(111). ACS Nano, 2012, 6, 151-158.	14.6	105
14	Structural and electronic properties of the graphene/Al/Ni(111) intercalation system. New Journal of Physics, 2011, 13, 113028.	2.9	103
15	Graphene on Rh(111): Scanning tunneling and atomic force microscopies studies. Applied Physics Letters, 2012, 100, .	3.3	99
16	Magnetite: a search for the half-metallic state. Journal of Physics Condensed Matter, 2007, 19, 315217.	1.8	87
17	Graphene growth and properties on metal substrates. Journal of Physics Condensed Matter, 2015, 27, 303002.	1.8	86
18	Electronic structure and imaging contrast of graphene moiré on metals. Scientific Reports, 2013, 3, 1072.	3.3	85

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19	Room-temperature observation of high-spin polarization of epitaxial CrO <sub>2</sub> (100) island films at the Fermi energy. Applied Physics Letters, 2002, 80, 4181-4183.	3.3	84
20	Structural and electronic properties of epitaxial multilayer h-BN on Ni(111) for spintronics applications. Scientific Reports, 2016, 6, 23547.	3.3	80
21	Understanding the origin of band gap formation in graphene on metals: graphene on Cu/Ir(111). Scientific Reports, 2015, 4, 5704.	3.3	74
22	Electronic structure of Mn <sub>2</sub> derivatives on the clean and functionalized Au surface. Physical Review B, 2007, 75, .	3.2	70
23	Photoemission study of electronic structure of the half-metallic ferromagnet $Co_3Mn_2Si$ . Physical Review B, 2009, 79, .	3.2	63
24	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	62
25	Correlations in the electronic structure of half-metallic ferromagnetic CrO <sub>2</sub> films: An x-ray absorption and resonant photoemission spectroscopy study. Physical Review B, 2005, 72, .	3.2	57
26	Electronic, magnetic and optical properties of MnPX <sub>3</sub> (X = S, Se) monolayers with and without chalcogen defects: a first-principles study. RSC Advances, 2020, 10, 851-864.	3.6	57
27	High-resolution Russian-German beamline at BESSY. Applied Physics A: Materials Science and Processing, 2009, 94, 501-505.	2.3	55
28	Artificially lattice-mismatched graphene/metal interface: Graphene/Ni/Ir(111). Physical Review B, 2013, 87, .	3.2	53
29	Structural and electronic properties of graphene nanoflakes on Au(111) and Ag(111). Scientific Reports, 2016, 6, 23439.	3.3	51
30	Intrinsic ferromagnetism versus phase segregation in Mn-doped Ge. Journal of Applied Physics, 2007, 101, 103912.	2.5	50
31	In Situ Fabrication Of Quasi-Free-Standing Epitaxial Graphene Nanoflakes On Gold. ACS Nano, 2014, 8, 3735-3742.	14.6	50
32	EELS study of the epitaxial graphene/Ni(1 1 1) and graphene/Au/Ni(1 1 1) systems. Carbon, 2012, 50, 183-191.	10.3	49
33	Restoring a nearly free-standing character of graphene on Ru(0001) by oxygen intercalation. Scientific Reports, 2016, 6, 20285.	3.3	46
34	Defect induced low temperature ferromagnetism in Zn <sub>1-x</sub> CoxO films. Journal of Applied Physics, 2007, 101, 073904.	2.5	44
35	Understanding the growth mechanism of graphene on Ge/Si(001) surfaces. Scientific Reports, 2016, 6, 31639.	3.3	44
36	General approach to understanding the electronic structure of graphene on metals. Materials Research Express, 2014, 1, 035603.	1.6	43

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37	Magnetic ordering of the Fe/Si interface and its initial formation. Journal of Applied Physics, 2008, 104, 104914.	2.5	40
38	Electronic Structure of Regular Bacterial Surface Layers. Physical Review Letters, 2004, 93, 238103.	7.8	39
39	Growth and structure of Mn on Au(111) at room temperature. Surface Science, 2003, 529, L275-L280.	1.9	36
40	Decoupling of graphene from Ni(111) via formation of an interfacial NiO layer. Carbon, 2017, 121, 10-16.	10.3	34
41	Theoretical description of X-ray absorption spectroscopy of the graphene-metal interfaces. Journal of Chemical Physics, 2013, 138, 154706.	3.0	33
42	Electronic structure of the Fe <sub>3</sub> O <sub>4</sub> (111) surface. Physical Review B, 2004, 70, .	3.2	31
43	Spin-resolved photoemission of a ferromagnetic Mn <sub>5</sub> Ge <sub>3</sub> (0001) epilayer on Ge(111). Journal of Applied Physics, 2009, 105, 073909.	2.5	30
44	Graphene on ferromagnetic surfaces and its functionalization with water and ammonia. Nanoscale Research Letters, 2011, 6, 214.	5.7	28
45	The graphene/n-Ge(110) interface: structure, doping, and electronic properties. Nanoscale, 2018, 10, 6088-6098.	5.6	28
46	Extended energy range of Ag quantum-well states in Ag(111)/Au(111)/W(110). Physical Review B, 2000, 62, R2303-R2306.	3.2	26
47	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.	7.8	25
48	Growth and electronic structure of graphene on semiconducting Ge(110). Carbon, 2017, 122, 428-433.	10.3	25
49	Preparation, structure, and electronic properties of Fe <sub>3</sub> O <sub>4</sub> films on the Fe(110)/Mo(110)/Al <sub>2</sub> O <sub>3</sub> (112̄0) substrate. Physical Review B, 2003, 68, .	3.2	24
50	Multichannel scanning probe microscopy and spectroscopy of graphene moiré structures. Physical Chemistry Chemical Physics, 2014, 16, 3894.	2.8	24
51	Spin-resolved photoelectron spectroscopy of Fe <sub>3</sub> O <sub>4</sub> revisited. Journal of Physics Condensed Matter, 2008, 20, 142201.	1.8	23
52	Scanning probe microscopy and spectroscopy of graphene on metals. Physica Status Solidi (B): Basic Research, 2015, 252, 451-468.	1.5	23
53	Epitaxial graphene/Ge interfaces: a minireview. Nanoscale, 2020, 12, 11416-11426.	5.6	22
54	$\chi_{\text{Co}}^{\text{Mn}2}$ Intrinsic Magnetic Surface of a Paramagnetic Bulk Material. Physical Review Letters, 2007, 99, 047204.	7.8	21

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55	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.	4.6	21
56	Correlations in the Electronic Structure of van der Waals NiPS <sub>3</sub> Crystals: An X-ray Absorption and Resonant Photoelectron Spectroscopy Study. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2400-2405.	4.6	21
57	Formation of an intercalation-like system by intercalation of C60 molecules underneath a graphite monolayer on Ni(111). <i>Surface Science</i> , 2000, 452, 1-8.	1.9	20
58	Electronic structure of shandite Co <sub>3</sub> Sn <sub>2</sub> S <sub>2</sub> . <i>Journal of Physics: Conference Series</i> , 2008, 100, 072011.	0.4	20
59	X-ray absorption and magnetic circular dichroism of graphene/Ni(111). <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	20
60	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.	2.6	19
61	Defect induced ferromagnetism in Co-doped ZnO thin films. <i>Journal of Physics: Conference Series</i> , 2008, 100, 042034.	0.4	18
62	Dirac Fermions in Half-Metallic Ferromagnetic Mixed Cr <sub>1-x</sub> M <sub>x</sub> PSe <sub>3</sub> Monolayers. <i>Advanced Theory and Simulations</i> , 2020, 3, 2000228.	2.8	18
63	Spectroscopic studies of the electronic properties of regularly arrayed two-dimensional protein layers. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S131-S144.	1.8	17
64	Charge Transport in Proteins Probed by Resonant Photoemission. <i>Physical Review Letters</i> , 2009, 102, 098101.	7.8	17
65	Layer-by-Layer Decoupling of Twisted Graphene Sheets Epitaxially Grown on a Metal Substrate. <i>Small</i> , 2018, 14, e1703701.	10.0	17
66	Structural and electronic properties of Fe <sub>3</sub> O <sub>4</sub> /graphene/Ni(111) junctions. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, 226-228.	2.4	16
67	Ge(001) As a Template for Long-Range Assembly of $\pi$ -Stacked Coronene Rows. <i>Langmuir</i> , 2012, 28, 3840-3844.	3.5	16
68	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.	6.1	14
69	Spin-resolved photoelectron spectroscopy of the MgO/Fe(110) system. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 82, 489-493.	2.3	13
70	Electronic structure, magnetism, and spin-dependent transport of CeMnNi <sub>4</sub> . <i>Physical Review B</i> , 2006, 73, .	3.2	13
71	Mott-Hubbard insulating state for the layered van der Waals $\text{FePX}_3$ (X: S, Se) as revealed by NEXAFS and resonant photoelectron spectroscopy. <i>Scientific Reports</i> , 2022, 12, 735.	3.3	13
72	Adsorption of NO <sub>2</sub> on WSe <sub>2</sub> : DFT and photoelectron spectroscopy studies. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 364003.	1.8	12

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73	Spectroscopic and DFT studies of graphene intercalation systems on metals. Journal of Electron Spectroscopy and Related Phenomena, 2017, 219, 77-85.	1.7	12
74	To the synthesis and characterization of layered metal phosphorus triselenides proposed for electrochemical sensing and energy applications. Chemical Physics Letters, 2020, 754, 137627.	2.6	12
75	Room temperature ferromagnetic (Zn,Co)O epitaxial films obtained by low-temperature MOCVD process. Thin Solid Films, 2007, 515, 8490-8494.	1.8	11
76	Preparation of the subnanometer thick epitaxial Al <sub>2</sub> O <sub>3</sub> (0001) layers on Fe(110) for magnetic tunnel junctions. Applied Surface Science, 2007, 253, 3860-3864.	6.1	11
77	Divalent state of ytterbium in YbFe <sub>4</sub> Sb <sub>12</sub> filled skutterudite. Physica C: Superconductivity and Its Applications, 2007, 460-462, 698-699.	1.2	11
78	Investigation of the stability of Mn <sub>12</sub> single molecule magnets. Applied Physics A: Materials Science and Processing, 2009, 94, 491-495.	2.3	11
79	Realistic Large-scale Modeling of Rashba and Induced Spin-orbit Effects in Graphene/High-Metal Systems. Advanced Theory and Simulations, 2018, 1, 1800063.	2.8	11
80	Growth and spin-resolved photoemission spectroscopy of the epitaxial $\hat{\pm}$ -Al <sub>2</sub> O <sub>3</sub> /Fe(110) system. Applied Physics Letters, 2002, 81, 2584-2586.	3.3	10
81	Atomic force spectroscopy and density-functional study of graphene corrugation on Ru(0001). Physical Review B, 2016, 93, .	3.2	10
82	Adsorption of water on the pristine and defective semiconducting 2D CrPX <sub>3</sub> monolayers (X: S, Se). Journal of Physics Condensed Matter, 2021, 33, .	1.8	10
83	Realization of the electric-field driven $\hat{\pm}$ -material-based magnetic tunnel junction using van der Waals antiferromagnetic MnPX <sub>3</sub> (X: S, Se). Journal of Materials Chemistry C, 2022, 10, 3812-3818.	5.5	10
84	Quantum-well states in bilayers of Ag and Au on W(110). Surface Science, 2003, 540, L638-L642.	1.9	9
85	Unoccupied electronic band structure of pentagonal Si nanoribbons on Ag(110). Physical Chemistry Chemical Physics, 2019, 21, 17811-17820.	2.8	9
86	Graphene on Rh(111): Combined DFT, STM, and NC-AFM Studies. Procedia Engineering, 2014, 93, 8-16.	1.2	8
87	Adsorption of Water Molecules on Pristine and Defective NiPX <sub>3</sub> (X: S, Se) Monolayers. Advanced Theory and Simulations, 2021, 4, 2100182.	2.8	8
88	Formation of intercalate-like systems of graphite-ytterbium monolayers on the Ni(111) surface. Physics of the Solid State, 2000, 42, 1170-1175.	0.6	7
89	Dirac Electron Behavior for Spin-Up Electrons in Strongly Interacting Graphene on Ferromagnetic Mn <sub>5</sub> Ge <sub>3</sub> . Journal of Physical Chemistry Letters, 2019, 10, 3212-3216.	4.6	7
90	Magnetic-dichroism study of iron silicides formed at the Fe/Si(100) interface. Applied Physics A: Materials Science and Processing, 2009, 94, 467-471.	2.3	6

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91	Specific many-electron effects in X-ray spectra of simple metals and graphene. Physical Chemistry Chemical Physics, 2013, 15, 6749.	2.8	6
92	Intercalation of Mn in graphene/Cu(111) interface: insights to the electronic and magnetic properties from theory. Scientific Reports, 2020, 10, 21684.	3.3	6
93	In situ oxidation of epitaxial Fe(110) films grown on Mo(110)/Al <sub>2</sub> O <sub>3</sub> (111̄20) substrates. Surface Science, 2003, 536, 61-66.	1.9	5
94	Ferromagnetic coupling in Eu <sup>2+</sup> /Gd(0001) observed by spin-resolved photoelectron spectroscopy. Physical Review B, 2006, 73, .	3.2	5
95	Growth and morphology of the epitaxial Fe(110)/MgO(111)/Fe(110) Trilayers. Surface Science, 2007, 601, 2166-2170.	1.9	5
96	Evidence for the short-period oscillations in spin-resolved photoemission of thin Cr(110) films. European Physical Journal B, 2007, 57, 15-19.	1.5	5
97	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.	1.5	5
98	Quantum Well States for Graphene Spin-Texture Engineering. Journal of Physical Chemistry Letters, 2020, 11, 1594-1600.	4.6	5
99	Short-period oscillations in photoemission from thin films of Cr(100). Physical Review B, 2005, 72, .	3.2	4
100	Growth and Room Temperature Spin Polarization of Half-metallic Epitaxial CrO <sub>2</sub> and Fe <sub>3</sub> O <sub>4</sub> Thin Films. Lecture Notes in Physics, 2005, , 289-308.	0.7	4
101	Overlapping XAFS L Spectra of 3d Metals A New Application of the Regularization Method. Physica Scripta, 2005, , 194.	2.5	4
102	Observation of surface state on ultrathin fcc <sup>55</sup> Mn(111) layer. Surface Science, 2006, 600, 4328-4331.	1.9	4
103	Spin dependence of d hybridization: A spin-resolved resonant photoemission study of Ce <sup>2+</sup> /Fe(110). Physical Review B, 2007, 76, .	3.2	4
104	Epitaxial Graphene on Metals. Nanoscience and Technology, 2011, , 189-234.	1.5	4
105	Electronic and Magnetic Properties of the Graphene- Ferromagnet Interfaces: Theory vs. Experiment. , 2011, , .		4
106	Local electronic properties of the graphene-protected giant Rashba-split $\text{BiAg}_2\text{S}_2$ surface. Physical Review B, 2017, 95, .		
107	Graphene Layer Morphology as an Indicator of the Metal Alloy Formation at the Interface. Journal of Physical Chemistry Letters, 2021, 12, 19-25.	4.6	4
108	Topological Quasi-2D Semimetal $\text{Co}_3\text{Sn}_2\text{S}_2$ : Insights into Electronic Structure from NEXAFS and Resonant Photoelectron Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 9807-9811.	4.6	4

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109	Magnetic linear dichroism in photoemission from an ultrathin iron silicide film. <i>Physics of the Solid State</i> , 2008, 50, 553-556.	0.6	3
110	Dispersion of $\langle \sigma \rangle$ and $\langle \tau \rangle$ of $4d$ impurity states in photoemission spectra of Yb/W(110). <i>Physical Review B</i> , 2008, 78, .	3.2	3
111	Electronic Structure and Magnetic Properties of Graphene/Ni <sub>3</sub> Mn/Ni(111) Trilayer. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4994-5002.	3.1	3
112	Intercalation of O <sub>2</sub> and N <sub>2</sub> in the Graphene/Ni Interfaces of Different Morphologies. <i>Journal of Physical Chemistry C</i> , 2019, 123, 16137-16145.	3.1	3
113	Tip-Induced Inversion of the Chirality of a Molecule's Adsorption Potential Probed by the Switching Directionality. <i>Advanced Materials</i> , 2020, 32, 1907390.	21.0	3
114	Electronic structure of thin ytterbium layers on W(110): A photoemission study. <i>Surface Science</i> , 2010, 604, 269-275.	1.9	2
115	Preparation and photoemission investigation of bulklike $\pm$ -Mn films on W(110). <i>Physical Review B</i> , 2010, 81, .	3.2	2
116	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.	0.9	2
117	Comment on "Spin-Orbit Coupling Induced Gap in Graphene on Pt(111) with Intercalated Pb Monolayer". <i>ACS Nano</i> , 2017, 11, 10627-10629.	14.6	2
118	Influence of surface and subsurface Co-Ir alloy on the electronic properties of graphene. <i>Carbon</i> , 2021, 183, 251-258.	10.3	2
119	Magnetic dichroism in angular resolved XPS on the Fe(110) surface. <i>European Physical Journal B</i> , 2005, 47, 315-318.	1.5	1
120	Surface magnetism of YCo <sub>2</sub> . <i>Surface Science</i> , 2007, 601, 4339-4342.	1.9	1
121	Spin-dependent hybridization and magnetic order of Ce/Fe(110) studied by spin-resolved resonant photoemission. <i>Surface Science</i> , 2007, 601, 4329-4333.	1.9	1
122	Method of measurements with random perturbation: Application in photoemission experiments. <i>Review of Scientific Instruments</i> , 2008, 79, 036103.	1.3	1
123	$d$ - and spin-dependent hybridization effects in Ce monolayer. <i>Journal of Physics: Conference Series</i> , 2008, 100, 072022.	0.4	1
124	Observation of ferromagnetic surface of paramagnetic YCo <sub>2</sub> . <i>Journal of Physics: Conference Series</i> , 2008, 100, 072028.	0.4	1
125	Spectroscopy and microscopy of graphene on metals. <i>Vakuum in Forschung Und Praxis</i> , 2014, 26, 19-25.	0.1	1
126	Second Floor of Flatland: Epitaxial Growth of Graphene on Hexagonal Boron Nitride. <i>Small</i> , 2021, 17, 2102747.	10.0	1



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127	Modification of the Magnetic and Electronic Properties of the Grapheneâ€Ni(111) Interface via Halogens Intercalation. <i>Advanced Theory and Simulations</i> , 0, , 2100319.	2.8	1
128	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.	3.5	1
129	Electronic and Magnetic Properties of The Graphene/RE/Ni(111) (RE: La, Yb) Intercalationâ€Like Interfaces: A DFT Analysis. <i>Advanced Theory and Simulations</i> , 0, , 2100621.	2.8	1
130	Silicon interaction with the (0001) surface of La and Gd layers. <i>Physics of the Solid State</i> , 2001, 43, 380-385.	0.6	0
131	Observation of high spin polarization of half-metallic ferromagnetic Fe/sub 3/O/sub 4/ and CrO/sub 2/ by spin-resolved photoelectron spectroscopy at room temperature. , 0, , .		0
132	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.	2.3	0
133	Spin-resolved photoelectron spectroscopy of rare-earth overlayers on rare-earth and d-metal substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, e231-e234.	2.3	0
134	Scanning tunneling spectroscopy on Mn<sub>12</sub>single molecule magnets grafted on Au(111). <i>Journal of Physics: Conference Series</i> , 2008, 100, 052070.	0.4	0
135	Electronic structure of thin ytterbium layers on W(110). <i>Journal of Physics: Conference Series</i> , 2008, 100, 072023.	0.4	0
136	Evidence for the short-period oscillations in spin-resolved photoemission of thin Cr(110) films. <i>Journal of Physics: Conference Series</i> , 2008, 100, 072029.	0.4	0
137	Graphene Properties on Metals. , 2018, , 138-144.		0
138	Second Floor of Flatland: Epitaxial Growth of Graphene on Hexagonal Boron Nitride (Small 36/2021). <i>Small</i> , 2021, 17, 2170188.	10.0	0