

# Gleb Kakazei

## List of Publications by Year in descending order

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131  
papers

2,748  
citations

218677

26  
h-index

214800

47  
g-index

131  
all docs

131  
docs citations

131  
times ranked

2529  
citing authors

#	ARTICLE	IF	CITATIONS
1	Merging of spin-wave modes in obliquely magnetized circular nanodots. <i>Physical Review B</i> , 2022, 105, .	3.2	2
2	Advances in Magnetism Roadmap on Spin-Wave Computing. <i>IEEE Transactions on Magnetism</i> , 2022, 58, 1-72.	2.1	179
3	Dynamical behaviour of ultrathin [CoFeB (tCoFeB)/Pd] films with perpendicular magnetic anisotropy. <i>Scientific Reports</i> , 2021, 11, 43.	3.3	8
4	Spin-wave eigenmodes in direct-write 3D nanovolcanoes. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	25
5	Control of Structural and Magnetic Properties of Polycrystalline Co <sub>2</sub> FeGe Films via Deposition and Annealing Temperatures. <i>Nanomaterials</i> , 2021, 11, 1229.	4.1	5
6	Thickness dependences of structural and magnetic properties of Ni(Co)MnSn/MgO(001) thin films. <i>Journal of Alloys and Compounds</i> , 2021, 862, 158474.	5.5	2
7	Engineered magnetization and exchange stiffness in direct-write Co <sup>2+</sup> Fe nanoelements. <i>Applied Physics Letters</i> , 2021, 118, .	3.3	13
8	Engineering spin wave spectra in thick $\text{Ni}_{1-x}\text{Mn}_x\text{O}$ rings by using competition between exchange and dipolar fields. <i>Physical Review B</i> , 2021, 104, .	3.0	1
9	Spin-wave spectroscopy of individual ferromagnetic nanodisks. <i>Nanoscale</i> , 2020, 12, 21207-21217.	5.6	24
10	Simulation of Chemical Order-Disorder Transitions Induced Thermally at the Nanoscale for Magnetic Recording and Data Storage. <i>ACS Applied Nano Materials</i> , 2020, 3, 7668-7677.	5.0	4
11	Spin-Wave Relaxation by Eddy Currents in $\text{Y}_3\text{Fe}_5\text{O}_{12}$ Bilayers and a Way to Suppress It. <i>Physical Review Applied</i> , 2020, 14, .	3.8	12
12	Non-uniform along thickness spin excitations in magnetic vortex-state nanodots. <i>Low Temperature Physics</i> , 2020, 46, 863-868.	0.6	0
13	Anisotropic Magnetic Resonance in Random Nanocrystal Quantum Dot Ensembles. <i>ACS Omega</i> , 2020, 5, 11333-11341.	3.5	2
14	Helicity of magnetic vortices and skyrmions in soft ferromagnetic nanodots and films biased by stray radial fields. <i>Physical Review B</i> , 2020, 101, .	3.2	11
15	Reflection-less width-modulated magnonic crystal. <i>Communications Physics</i> , 2020, 3, .	5.3	32
16	Dynamical behavior of ferromagnetic nanowire arrays: From 1-D to 3-D. , 2020, , 559-611.		1
17	Double magnetic reorientation transition in thin garnet films. <i>Physical Review Research</i> , 2020, 2, .	3.6	1
18	Correction to Simulation of Chemical Order-Disorder Transitions Induced Thermally at the Nanoscale for Magnetic Recording and Data Storage. <i>ACS Applied Nano Materials</i> , 2020, 3, 12433-12433.	5.0	0

#	ARTICLE	IF	CITATIONS
19	Route to form skyrmions in soft magnetic films. <i>APL Materials</i> , 2019, 7, .	5.1	15
20	Spin-Wave Phase Inverter upon a Single Nanodot. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 17654-17662.	8.0	46
21	Magnetic properties of permalloy antidot array fabricated by interference lithography. <i>AIP Advances</i> , 2019, 9, .	1.3	8
22	Probing the morphology of epitaxial Fe/MgO discontinuous multilayers by magnetometric technique. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 474, 369-373.	2.3	4
23	Negative Magnetoresistance in Nanotwinned NiMnGa Epitaxial Films. <i>Scientific Reports</i> , 2018, 8, 15730.	3.3	19
24	Overcoming the Limits of Vortex Formation in Magnetic Nanodots by Coupling to Antidot Matrix. <i>Physical Review Applied</i> , 2018, 10, .	3.8	24
25	Spin-wave propagation through a magnonic crystal in a thermal gradient. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 344002.	2.8	15
26	Magnetic skyrmion size and stability in ultrathin nanodots accounting Dzyaloshinskii-Moriya exchange interaction. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 465, 471-479.	2.3	19
27	Antiferromagnetic coupling between martensitic twin variants observed by magnetic resonance in Ni-Mn-Sn-Co films. <i>Physical Review B</i> , 2017, 95, .	3.2	19
28	Spin wave modes in out-of-plane magnetized nanorings. <i>Physical Review B</i> , 2017, 96, .	3.2	11
29	Electrical switching of magnetization in a layer of $\hat{I}\pm$ -Fe with a naturally hydroxidized surface. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7751-7755.	5.5	2
30	Spin-wave excitation modes in thick vortex-state circular ferromagnetic nanodots. <i>Physical Review B</i> , 2016, 93, .	3.2	25
31	Splitting of standing spin-wave modes in circular submicron ferromagnetic dot under axial symmetry violation. <i>Scientific Reports</i> , 2016, 5, 18480.	3.3	10
32	Large four-fold magnetic anisotropy in two-dimensional modulated Ni <sub>80</sub> Fe <sub>20</sub> films. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	17
33	Giant moving vortex mass in thick magnetic nanodots. <i>Scientific Reports</i> , 2015, 5, 13881.	3.3	34
34	Terahertz Response and Ultrafast Laser-Induced Dynamics of Spins and Charges in CoFe/Al <sub>2</sub> O <sub>3</sub> Multilayers. <i>Springer Proceedings in Physics</i> , 2015, , 261-263.	0.2	0
35	Tuning four-fold magnetic anisotropy in two-dimensional modulated Ni <sub>80</sub> Fe <sub>20</sub> films. , 2015, , .		0
36	Laser-induced diffusion decomposition in Fe $\hat{e}$ V thin-film alloys. <i>Applied Surface Science</i> , 2015, 336, 380-384.	6.1	2

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37	Terahertz dynamics of spins and charges in CoFe/Al <sub>2</sub> O <sub>3</sub> multilayers. <i>Physical Review B</i> , 2015, 91, .	3.2	10
38	Interfacial Structure Dependent Spin Mixing Conductance in Cobalt Thin Films. <i>Physical Review Letters</i> , 2015, 115, 056601.	7.8	78
39	Study of magnetoelastic and magnetocrystalline anisotropies in Co Ni <sup>1-<math>\hat{\alpha}</math></sup> nanowire arrays. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 374, 663-668.	2.3	8
40	Microwave absorption properties of permalloy nanodots in the vortex and quasi-uniform magnetization states. <i>New Journal of Physics</i> , 2014, 16, 063044.	2.9	15
41	Static and dynamic behaviors of 1-D and 2-D magnonic crystals. , 2014, , .		0
42	Intensity inversion of vortex gyrotropic modes in thick ferromagnetic nanodots. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	18
43	Ni <sub>80</sub> Fe <sub>20</sub> film with periodically modulated thickness as a reconfigurable one-dimensional magnonic crystal. <i>Applied Physics Letters</i> , 2014, 104, 042403.	3.3	26
44	Ferromagnetic resonance micromagnetic studies in patterned permalloy thin films and stripes. <i>Journal of Applied Physics</i> , 2014, 116, 093908.	2.5	9
45	Tunable magnetic anisotropy in permalloy thin films grown on holographic relief gratings. <i>Applied Physics Letters</i> , 2014, 104, 082408.	3.3	17
46	Dynamic exchange via spin currents in acoustic and optical modes of ferromagnetic resonance in spin-valve structures. <i>Physical Review B</i> , 2014, 89, .	3.2	18
47	Higher order vortex gyrotropic modes in circular ferromagnetic nanodots. <i>Scientific Reports</i> , 2014, 4, 4796.	3.3	51
48	Magnonic crystals composed of Ni <sub>80</sub> Fe <sub>20</sub> film on top of Ni <sub>80</sub> Fe <sub>20</sub> two-dimensional dot array. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	26
49	Resonant and non-resonant microwave absorption as a probe of the magnetic dynamics and switching in spin valves. <i>Journal of Applied Physics</i> , 2013, 114, 023906.	2.5	2
50	Influence of the electrodeposition cathodic potential on the composition and magnetic properties of CoNi nanowires. , 2013, , .		0
51	NiFe/CoFe/Cu/CoFe/MnIr spin valves studied by ferromagnetic resonance. <i>Journal of Applied Physics</i> , 2013, 113, 17D713.	2.5	6
52	Standing spin waves in perpendicularly magnetized circular dots at millimeter waves. <i>Journal of Applied Physics</i> , 2013, 113, 17B521.	2.5	5
53	Fabrication and magnetic properties of nanostructured amorphous Nd <sup>1-<math>\hat{\alpha}</math></sup> Co films with lateral modulation of magnetic stripe period. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 345001.	2.8	12
54	Low Temperature FMR in the System of Non-Interacting Magnetic Nanodisks. <i>Solid State Phenomena</i> , 2012, 190, 593-596.	0.3	1

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55	Magnetic Behavior of High Density Arrays of Co Bars with Strong Magnetostatic Coupling. Journal of Nanoscience and Nanotechnology, 2012, 12, 7510-7515.	0.9	3
56	Magnetic Properties of Epitaxial Discontinuous Fe/MgO Multilayers. Journal of Nanoscience and Nanotechnology, 2012, 12, 7505-7509.	0.9	1
57	Probing the Quality of Ni Filled Nanoporous Alumina Templates by Magnetic Techniques. Journal of Nanoscience and Nanotechnology, 2012, 12, 7486-7490.	0.9	13
58	Probing dynamical magnetization pinning in circular dots as a function of the external magnetic field orientation. Physical Review B, 2012, 86, .	3.2	18
59	Evolution of the Magnetic Properties of Co <sub>10</sub> Cu <sub>90</sub> Nanoparticles Prepared by Wet Chemistry with Thermal Annealing. Journal of Nanoscience and Nanotechnology, 2012, 12, 7529-7534.	0.9	7
60	Evidences for direct magnetic patterning via diffusive transformations using femtosecond laser interferometry. Applied Physics Letters, 2012, 101, 132408.	3.3	14
61	Structure and magnetic properties of highly dispersed Ni-Mn-Ga powders prepared by spark-erosion. Journal of Applied Physics, 2012, 112, .	2.5	11
62	Epitaxial Growths and Magnetization Dynamics of Ni <sub>2</sub> MnSn Heusler Alloy Films. Acta Physica Polonica A, 2012, 121, 1121-1123.	0.5	11
63	Large piezoelectric response in Bi <sub>2</sub> Te <sub>3</sub> thin films. Applied Physics Letters, 2011, 98, 122502.	3.3	10
64	Tunneling magnetoresistance in epitaxial discontinuous Fe/MgO multilayers. Applied Physics Letters, 2011, 98, 122502.	3.3	10
65	Magnetization processes in rectangular versus rhombic planar superlattices of magnetic bars. Physical Review B, 2011, 84, .	3.2	3
66	Slow magnetization dynamics and energy barriers near vortex state nucleation in circular permalloy dots. Applied Physics Letters, 2011, 99, .	3.3	13
67	Effect of Gd substitution on ferroelectric and magnetic properties of Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> . Materials Letters, 2010, 64, 1066-1068.	2.6	25
68	Low Temperature Deposition of Ferromagnetic Ni-Mn-Ga Thin Films From Two Different Targets via rf Magnetron Sputtering. Materials Research Society Symposia Proceedings, 2010, 1250, 1.	0.1	2
69	Magnetic properties of amorphous Co <sub>0.74</sub> Si <sub>0.26</sub> ~Si multilayers with different numbers of periods. Low Temperature Physics, 2010, 36, 821-825.	0.6	0
70	Ferromagnetic proximity effect in a <sub>1-x</sub> Co <sub>x</sub> thin films. Physical Review B, 2010, 82, .	3.3	29
71	Precise probing spin wave mode frequencies in the vortex state of circular magnetic dots. Applied Physics Letters, 2010, 96, .	3.3	29
72	Rhombohedral-to-orthorhombic transition and multiferroic properties of Dy-substituted BiFeO <sub>3</sub> . Journal of Applied Physics, 2010, 108, .	2.5	86

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73	Spin excitation frequencies in magnetostatically coupled arrays of vortex state circular Permalloy dots. Applied Physics Letters, 2010, 97, 132501.	3.3	50
74	Mechanisms of magnetic and temperature hysteresis in ErFeO <sub>3</sub> and TmFeO <sub>3</sub> single crystals. Journal of Applied Physics, 2010, 108, .	2.5	23
75	Magnetic field strength and orientation effects on Co-Fe discontinuous multilayers close to percolation. Physical Review B, 2010, 82, .	3.2	7
76	Resistive switching in nanostructured thin films. Applied Physics Letters, 2009, 94, .	3.3	25
77	Single-domain-wall states in millimeter-scale samples of $\text{ErFeO}_3$ . Physical Review B, 2009, 79, .	3.2	15
78	Magnetic and transport properties of diluted granular multilayers. Journal of Applied Physics, 2009, 106, 113910.	2.5	5
79	Spin waves in circular soft magnetic dots at the crossover between vortex and single domain state. Physical Review B, 2009, 79, .	3.2	76
80	Magnetization anomalies in melt-spun Ni <sub>40</sub> Mn <sub>60</sub> Ga ribbons. Journal of Magnetism and Magnetic Materials, 2008, 320, 1063-1067.	2.3	17
81	Broadband Magnetic Response of Periodic Arrays of FeNi Dots. IEEE Transactions on Magnetics, 2008, 44, 3063-3066.	2.1	8
82	Ferromagnetic resonance of ultrathin Co <sub>40</sub> Ag superlattices on Si(111). Journal of Applied Physics, 2008, 103, 07B527.	2.5	6
83	Magnetic Hysteresis in ErFeO <sub>3</sub> Near the Low Temperature Erbium Ordering Transition. IEEE Transactions on Magnetics, 2008, 44, 2933-2935.	2.1	15
84	Collective dynamics and ferromagnetic order in random planar arrays of magnetic granules. Journal of Applied Physics, 2008, 103, 07B723.	2.5	7
85	Probing Arrays of Circular Magnetic Microdots by Ferromagnetic Resonance. Journal of Nanoscience and Nanotechnology, 2008, 8, 2811-2826.	0.9	11
86	Probing arrays of circular magnetic microdots by ferromagnetic resonance. Journal of Nanoscience and Nanotechnology, 2008, 8, 2811-26.	0.9	1
87	Magnetic and structural properties of spin-reorientation transitions in orthoferrites. Journal of Applied Physics, 2007, 101, 123919.	2.5	93
88	The role of dipolar interactions in magnetic nanoparticles: Ferromagnetic resonance in discontinuous magnetic multilayers. Journal of Applied Physics, 2007, 101, 103907.	2.5	27
89	Ferromagnetic Resonance and Hall Effect Characterization of GaMnSb Layers. Journal of Superconductivity and Novel Magnetism, 2007, 20, 399-403.	1.8	10
90	Orientation phase transition in Fe <sub>3</sub> BO <sub>6</sub> : Experimental determination of the order of the transition. Physical Review B, 2006, 74, .	3.2	11

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91	Nanogranular Layered Magnetic Films. , 2006, , 1158-1192.		0
92	Common Aspects of the Magnetization Behavior of the $\Gamma_4^- \rightarrow \Gamma_2^-$ Phase Transitions in Orthoferrites. AIP Conference Proceedings, 2006, , .	0.4	0
93	Evidence of surface anisotropy in magnetic nanoparticles. Journal of Magnetism and Magnetic Materials, 2006, 300, e331-e334.	2.3	12
94	Ferromagnetic resonance force microscopy studies of arrays of micron size permalloy dots. Physical Review B, 2006, 74, .	3.2	39
95	Origin of fourfold anisotropy in square lattices of circular ferromagnetic dots. Physical Review B, 2006, 74, .	3.2	48
96	Interlayer dipolar interactions in multilayered granular films. Journal of Applied Physics, 2005, 97, 10A723.	2.5	15
97	Natural behavior of the magnetization under spontaneous reorientation: TmFeO <sub>3</sub> , ErFeO <sub>3</sub> . Low Temperature Physics, 2005, 31, 277-282.	0.6	18
98	Measurements of spin reorientation in YbFeO <sub>3</sub> and comparison with modified mean-field theory. Physical Review B, 2005, 72, .	3.2	36
99	Spin-wave spectra of perpendicularly magnetized circular submicron dot arrays. Applied Physics Letters, 2004, 85, 443-445.	3.3	130
100	The magnetoacoustic anomaly in Fe <sub>3</sub> BO <sub>6</sub> . Journal of Magnetism and Magnetic Materials, 2004, 272-276, 2113-2114.	2.3	11
101	The role of erbium magnetization anisotropy during the magnetic reorientation transition in ErFeO <sub>3</sub> . Journal of Applied Physics, 2004, 95, 6622-6624.	2.5	42
102	Spin-reorientation in ErFeO <sub>3</sub> : Zero-field transitions, three-dimensional phase diagram, and anisotropy of erbium magnetism. Physical Review B, 2004, 69, .	3.2	72
103	Peculiar magnetic and electrical properties near structural percolation in metal-insulator granular layers. Journal of Applied Physics, 2004, 96, 3861-3864.	2.5	19
104	Structural imperfection, phase transitions, and the properties of magnetoresistive ceramic and films of La <sub>0.66</sub> Mn <sub>1.23</sub> V <sub>0.11</sub> (c)O <sub>2.842</sub> and V <sub>0.16</sub> (a). Low Temperature Physics, 2004, 30, 299-304.	0.6	7
105	Low-field magnetization study of CoFe/Al <sub>2</sub> O <sub>3</sub> multilayers. Journal of Magnetism and Magnetic Materials, 2003, 266, 57-61.	2.3	14
106	Current-in-plane transport in granular single layers and multilayers of CoFe in Al <sub>2</sub> O <sub>3</sub> . Journal of Magnetism and Magnetic Materials, 2003, 266, 62-67.	2.3	6
107	Magnetic structure in FeCo/Al <sub>2</sub> O <sub>3</sub> granular films studied by the ferromagnetic resonance. Physica Status Solidi A, 2003, 196, 157-160.	1.7	4
108	Ferromagnetic resonance experiments in an obliquely deposited FeCo/Al <sub>2</sub> O <sub>3</sub> film system. Journal of Applied Physics, 2003, 94, 6631-6638.	2.5	12

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109	In-plane and out-of-plane uniaxial anisotropies in rectangular arrays of circular dots studied by ferromagnetic resonance. <i>Journal of Applied Physics</i> , 2003, 93, 8418-8420.	2.5	46
110	Superspin Glass Behavior of Interacting Ferromagnetic Nanoparticles in Discontinuous Magnetic Multilayers. <i>Phase Transitions</i> , 2002, 75, 73-79.	1.3	14
111	Magnetic states of discontinuous Co <sub>80</sub> Fe <sub>20</sub> /Al <sub>2</sub> O <sub>3</sub> multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 240, 433-435.	2.3	11
112	Local structure in CoFe/Al <sub>2</sub> O <sub>3</sub> multilayers determined by nuclear magnetic resonance. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 242-245, 943-945.	2.3	4
113	Peculiar CIP transport in CoFe/Al <sub>2</sub> O <sub>3</sub> granular layered films across a micro-gap. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 242-245, 485-488.	2.3	2
114	Interacting ferromagnetic nanoparticles in discontinuous Co <sub>80</sub> Fe <sub>20</sub> /Al <sub>2</sub> O <sub>3</sub> multilayers: From superspin glass to reentrant superferromagnetism. <i>Physical Review B</i> , 2001, 63, .	3.2	187
115	Magnetic states of granular layered CoFe-Al/sub 2/O/sub 3/ system. <i>IEEE Transactions on Magnetics</i> , 2001, 37, 2200-2203.	2.1	8
116	Mechano-thermal Effects on the Defect Structure in ZnO Powders Subjected to Hydrostatic Pressure. <i>Crystal Research and Technology</i> , 2001, 36, 429-439.	1.3	10
117	AC susceptibility studies of discontinuous Co <sub>80</sub> Fe <sub>20</sub> /Al <sub>2</sub> O <sub>3</sub> multilayers. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 226-230, 1825-1827.	2.3	6
118	FMR in CoFe/Al <sub>2</sub> O <sub>3</sub> multilayers: from continuous to discontinuous regime. <i>Journal of Magnetism and Magnetic Materials</i> , 2001, 226-230, 1828-1830.	2.3	4
119	Tunnel magnetoresistance and magnetic ordering in ion-beam sputtered Co <sub>80</sub> Fe <sub>20</sub> /Al <sub>2</sub> O <sub>3</sub> discontinuous multilayers. <i>Journal of Applied Physics</i> , 2001, 90, 4044-4048.	2.5	78
120	Time-dependent transport effects in CoFe/Al <sub>2</sub> O <sub>3</sub> discontinuous multilayers. <i>Journal of Applied Physics</i> , 2000, 87, 6328-6330.	2.5	7
121	Structural and magnetic study of heterogeneous Co <sub>x</sub> Ag <sub>1-x</sub> films by resonance and magnetometric techniques. <i>Physical Review B</i> , 1999, 60, 12200-12206.	3.2	29
122	Influence of co-evaporation technique on the structural and magnetic properties of CoCu granular films. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 196-197, 29-30.	2.3	23
123	GMR in co-evaporated Co-Ag granular thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 196-197, 40-42.	2.3	14
124	Influence of conduction electrons and dipolar interactions on the susceptibility of granular materials. <i>Journal of Magnetism and Magnetic Materials</i> , 1999, 196-197, 112-114.	2.3	7
125	Transport properties of discontinuous Co <sub>80</sub> /Fe <sub>20</sub> /Al <sub>2</sub> O <sub>3</sub> multilayers, prepared by ion beam sputtering. <i>IEEE Transactions on Magnetics</i> , 1999, 35, 2895-2897.	2.1	30
126	Ferromagnetic resonance in granular thin films. <i>Journal of Applied Physics</i> , 1999, 85, 5654-5656.	2.5	72



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127	Ferromagnetic Resonance in Films with Uniaxial Oblique Anisotropy. , 1998, , 211-216.		3
128	The study of the perpendicular anisotropy in the nanocrystalline Ni and Co films. Journal of Magnetism and Magnetic Materials, 1996, 155, 57-59.	2.3	5
129	Influence of the Electrodeposition Cathodic Potential on the Composition and Magnetic Properties of CoNi Nanowires. Solid State Phenomena, 0, 214, 32-39.	0.3	2
130	Design of electromagnetic shielding textiles based on industrial-grade multiwalled carbon nanotubes and graphene nanoplatelets by dip-coat dry process. Physica Status Solidi (A) Applications and Materials Science, 0, , .	1.8	4
131	Scalable Flexible Electromagnetic Interference Shielding Textiles Based on MWCNTs and PEDOT:PSS. Solid State Phenomena, 0, 333, 161-169.	0.3	0