

Igor A Karateev

List of Publications by Year in descending order

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39
papers

664
citations

687363

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580821

25
g-index

39
all docs

39
docs citations

39
times ranked

604
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging two-dimensional ferromagnetism in silicene materials. Nature Communications, 2018, 9, 1672.	12.8	103
2	High-Temperature Magnetism in Graphene Induced by Proximity to EuO. ACS Applied Materials & Interfaces, 2018, 10, 20767-20774.	8.0	63
3	Lanthanide f ⁷ metalloxenes – a class of intrinsic 2D ferromagnets. Materials Horizons, 2019, 6, 1488-1496.	12.2	49
4	Engineering of Magnetically Intercalated Silicene Compound: An Overlooked Polymorph of EuSi ₂ . Advanced Functional Materials, 2017, 27, 1606603.	14.9	40
5	2D ferromagnetism in europium/graphene bilayers. Materials Horizons, 2020, 7, 1372-1378.	12.2	34
6	Atomic-Scale Engineering of Abrupt Interface for Direct Spin Contact of Ferromagnetic Semiconductor with Silicon. Scientific Reports, 2016, 6, 22841.	3.3	32
7	Europium Silicide – a Prospective Material for Contacts with Silicon. Scientific Reports, 2016, 6, 25980.	3.3	32
8	Layer-controlled laws of electron transport in two-dimensional ferromagnets. Materials Today, 2019, 29, 20-25.	14.2	31
9	High-Mobility Carriers in Germanene Derivatives. Advanced Functional Materials, 2020, 30, 1910643.	14.9	28
10	Fine structure of metal-insulator transition in EuO resolved by doping engineering. Nanotechnology, 2018, 29, 195706.	2.6	22
11	Competing magnetic states in silicene and germanene 2D ferromagnets. Nano Research, 2020, 13, 3396-3402.	10.4	19
12	A prospective submonolayer template structure for integration of functional oxides with silicon. Materials and Design, 2017, 116, 616-621.	7.0	18
13	BaTiO ₃ Thin Films from Atomic Layer Deposition: A Superlattice Approach. Journal of Physical Chemistry C, 2017, 121, 16911-16920.	3.1	13
14	Universal Interface between Functional Oxides and Silicon. Advanced Functional Materials, 2021, 31, 2010269.	14.9	13
15	Two-Dimensional Magnets beyond the Monolayer Limit. ACS Nano, 2021, 15, 12034-12041.	14.6	13
16	Emerging 2D magnetic states in a graphene-based monolayer of EuC ₆ . Nano Research, 2022, 15, 408-413.	10.4	13
17	Energy dependent structure of Xe ion tracks in YBCO and the effect on the superconductive properties in magnetic fields. Journal of Applied Physics, 2019, 126, .	2.5	12
18	Microstructure and superconducting properties of high-rate PLD-derived GdBa ₂ Cu ₃ O _{7-x} coated conductors with BaSnO ₃ and BaZrO ₃ pinning centers. Scientific Reports, 2019, 9, 15235.	3.3	12

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19	Formation of BiFeO ₃ from a Binary Oxide Superlattice Grown by Atomic Layer Deposition. ChemPhysChem, 2017, 18, 1966-1970.	2.1	10
20	Magnetic and magnetotransport properties of Bi ₂ Se ₃ thin films doped by Eu. Journal of Magnetism and Magnetic Materials, 2018, 459, 331-334.	2.3	10
21	Giant quadratic magneto-optical Kerr effect in (Eu,Gd)O films for magnetic field sensing. Applied Materials Today, 2020, 19, 100640.	4.3	10
22	Thermal Conductivity of Diamond Mosaic Crystals Grown by Chemical Vapor Deposition: Thermal Resistance of Junctions. Physical Review Applied, 2021, 16, .	3.8	10
23	Two-dimensional ferromagnetism in Eu-intercalated few-layer graphene. Journal of Alloys and Compounds, 2021, 884, 161078.	5.5	10
24	Dimensionality Concept in Solid-State Reactions: A Way to Control Synthesis of Functional Materials at the Nanoscale. Advanced Functional Materials, 2020, 30, 2002691.	14.9	8
25	Direct epitaxial integration of the ferromagnetic semiconductor EuO with Si(111). Journal of Magnetism and Magnetic Materials, 2018, 459, 136-140.	2.3	7
26	Controlling the phase transition in nanocrystalline ferroelectric thin films via cation ratio. Nanoscale, 2018, 10, 21798-21808.	5.6	6
27	Evidence of extended cation solubility in atomic layer deposited nanocrystalline BaTiO ₃ thin films and its strong impact on the electrical properties. Nanoscale, 2018, 10, 12515-12525.	5.6	6
28	Toward a Low-Temperature Route for Epitaxial Integration of BiFeO ₃ on Si. Journal of Physical Chemistry C, 2019, 123, 12203-12210.	3.1	6
29	Interface-controlled integration of functional oxides with Ge. Journal of Materials Chemistry C, 2021, 9, 17012-17018.	5.5	5
30	Interface-Induced Anomalous Hall Conductivity in a Confined Metal. ACS Applied Materials & Interfaces, 2018, 10, 35589-35598.	8.0	4
31	Effects of Kr and Xe ion irradiation on the structure of Y ₂ O ₃ nanoprecipitates in YBCO thin film conductors. Philosophical Magazine, 2018, 98, 3127-3142.	1.6	4
32	Probing proximity effects in the ferromagnetic semiconductor EuO. Applied Surface Science, 2019, 488, 107-114.	6.1	4
33	Nanoscale synthesis of ionic analogues of bilayer silicene with high carrier mobility. Journal of Materials Chemistry C, 2021, 9, 8545-8551.	5.5	4
34	Chaos at Interface Brings Order into Oxide/Silicon Structure. Advanced Functional Materials, 2021, 31, 2104925.	14.9	4
35	A low-temperature route for producing epitaxial perovskite superlattice structures on (001)-oriented SrTiO ₃ /Si substrates. Journal of Materials Chemistry C, 2021, 9, 13115-13122.	5.5	3
36	High Carrier Mobility in a Layered Antiferromagnet Integrated with Silicon. ACS Applied Materials & Interfaces, 2021, 13, 41926-41932.	8.0	3

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37	Two-dimensional magnetism in Xenes. , 2022, , 353-375.		2
38	Coupling of magnetic orders in a 4f metal/oxide system. Journal of Materials Chemistry C, 2018, 6, 9950-9957.	5.5	1
39	Magnetically intercalated multilayer silicene. EPJ Web of Conferences, 2018, 185, 01010.	0.3	0