

# Igor A Karateev

## List of Publications by Year in descending order

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39  
papers

664  
citations

687363

13  
h-index

580821

25  
g-index

39  
all docs

39  
docs citations

39  
times ranked

604  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emerging 2D magnetic states in a graphene-based monolayer of EuC <sub>6</sub> . Nano Research, 2022, 15, 408-413.	10.4	13
2	Two-dimensional magnetism in Xenos. , 2022, , 353-375.		2
3	A low-temperature route for producing epitaxial perovskite superlattice structures on (001)-oriented SrTiO <sub>3</sub> /Si substrates. Journal of Materials Chemistry C, 2021, 9, 13115-13122.	5.5	3
4	Nanoscale synthesis of ionic analogues of bilayer silicene with high carrier mobility. Journal of Materials Chemistry C, 2021, 9, 8545-8551.	5.5	4
5	Universal Interface between Functional Oxides and Silicon. Advanced Functional Materials, 2021, 31, 2010269.	14.9	13
6	Two-Dimensional Magnets beyond the Monolayer Limit. ACS Nano, 2021, 15, 12034-12041.	14.6	13
7	Chaos at Interface Brings Order into Oxide/Silicon Structure. Advanced Functional Materials, 2021, 31, 2104925.	14.9	4
8	Thermal Conductivity of Diamond Mosaic Crystals Grown by Chemical Vapor Deposition: Thermal Resistance of Junctions. Physical Review Applied, 2021, 16, .	3.8	10
9	High Carrier Mobility in a Layered Antiferromagnet Integrated with Silicon. ACS Applied Materials & Interfaces, 2021, 13, 41926-41932.	8.0	3
10	Two-dimensional ferromagnetism in Eu-intercalated few-layer graphene. Journal of Alloys and Compounds, 2021, 884, 161078.	5.5	10
11	Interface-controlled integration of functional oxides with Ge. Journal of Materials Chemistry C, 2021, 9, 17012-17018.	5.5	5
12	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
13	Competing magnetic states in silicene and germanene 2D ferromagnets. Nano Research, 2020, 13, 3396-3402.	10.4	19
14	2D ferromagnetism in europium/graphene bilayers. Materials Horizons, 2020, 7, 1372-1378.	12.2	34
15	Giant quadratic magneto-optical Kerr effect in (Eu,Gd)O films for magnetic field sensing. Applied Materials Today, 2020, 19, 100640.	4.3	10
16	High-Mobility Carriers in Germanene Derivatives. Advanced Functional Materials, 2020, 30, 1910643.	14.9	28
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	Probing proximity effects in the ferromagnetic semiconductor EuO. Applied Surface Science, 2019, 488, 107-114.	6.1	4

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19	Layer-controlled laws of electron transport in two-dimensional ferromagnets. <i>Materials Today</i> , 2019, 29, 20-25.	14.2	31
20	Lanthanide $f^{7/2}$ metalloxenes – a class of intrinsic 2D ferromagnets. <i>Materials Horizons</i> , 2019, 6, 1488-1496.	12.2	49
21	Toward a Low-Temperature Route for Epitaxial Integration of $\text{BiFeO}_3$ on Si. <i>Journal of Physical Chemistry C</i> , 2019, 123, 12203-12210.	3.1	6
22	Microstructure and superconducting properties of high-rate PLD-derived $\text{GdBa}_2\text{Cu}_3\text{O}_{7-x}$ coated conductors with $\text{BaSnO}_3$ and $\text{BaZrO}_3$ pinning centers. <i>Scientific Reports</i> , 2019, 9, 15235.	3.3	12
23	Fine structure of metal-insulator transition in $\text{EuO}$ resolved by doping engineering. <i>Nanotechnology</i> , 2018, 29, 195706.	2.6	22
24	Emerging two-dimensional ferromagnetism in silicene materials. <i>Nature Communications</i> , 2018, 9, 1672.	12.8	103
25	Magnetic and magnetotransport properties of $\text{Bi}_2\text{Se}_3$ thin films doped by Eu. <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 459, 331-334.	2.3	10
26	Direct epitaxial integration of the ferromagnetic semiconductor $\text{EuO}$ with $\text{Si}(1\bar{1}\bar{1})$ . <i>Journal of Magnetism and Magnetic Materials</i> , 2018, 459, 136-140.	2.3	7
27	Controlling the phase transition in nanocrystalline ferroelectric thin films via cation ratio. <i>Nanoscale</i> , 2018, 10, 21798-21808.	5.6	6
28	Magnetically intercalated multilayer silicene. <i>EPJ Web of Conferences</i> , 2018, 185, 01010.	0.3	0
29	Interface-Induced Anomalous Hall Conductivity in a Confined Metal. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 35589-35598.	8.0	4
30	Effects of Kr and Xe ion irradiation on the structure of $\text{Y}_2\text{O}_3$ nanoprecipitates in YBCO thin film conductors. <i>Philosophical Magazine</i> , 2018, 98, 3127-3142.	1.6	4
31	Coupling of magnetic orders in a 4f metal/oxide system. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9950-9957.	5.5	1
32	High-Temperature Magnetism in Graphene Induced by Proximity to $\text{EuO}$ . <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 20767-20774.	8.0	63
33	Evidence of extended cation solubility in atomic layer deposited nanocrystalline $\text{BaTiO}_3$ thin films and its strong impact on the electrical properties. <i>Nanoscale</i> , 2018, 10, 12515-12525.	5.6	6
34	Formation of $\text{BiFeO}_3$ from a Binary Oxide Superlattice Grown by Atomic Layer Deposition. <i>ChemPhysChem</i> , 2017, 18, 1966-1970.	2.1	10
35	Engineering of Magnetically Intercalated Silicene Compound: An Overlooked Polymorph of $\text{EuSi}_2$ . <i>Advanced Functional Materials</i> , 2017, 27, 1606603.	14.9	40
36	A prospective submonolayer template structure for integration of functional oxides with silicon. <i>Materials and Design</i> , 2017, 116, 616-621.	7.0	18

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37	BaTiO <sub>3</sub> Thin Films from Atomic Layer Deposition: A Superlattice Approach. Journal of Physical Chemistry C, 2017, 121, 16911-16920.	3.1	13
38	Atomic-Scale Engineering of Abrupt Interface for Direct Spin Contact of Ferromagnetic Semiconductor with Silicon. Scientific Reports, 2016, 6, 22841.	3.3	32
39	Europium Silicide – a Prospective Material for Contacts with Silicon. Scientific Reports, 2016, 6, 25980.	3.3	32