List of Publications by Year in descending order

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ROBERT KRIIK

#	Article	IF	CITATIONS
1	Gold Mesostructures with Tailored Surface Topography and Their Self-Assembly Arrays for Surface-Enhanced Raman Spectroscopy. Nano Letters, 2010, 10, 5006-5013.	4.5	295
2	Printed Electronics Based on Inorganic Semiconductors: From Processes and Materials to Devices. Advanced Materials, 2018, 30, e1707600.	11.1	148
3	Inkjet Printed, High Mobility Inorganic-Oxide Field Effect Transistors Processed at Room Temperature. ACS Nano, 2011, 5, 9628-9638.	7.3	118
4	High-entropy oxides: An emerging prospect for magnetic rare-earth transition metal perovskites. Physical Review Materials, 2019, 3, .	0.9	107
5	Highâ€5peed, Lowâ€Voltage, and Environmentally Stable Operation of Electrochemically Gated Zinc Oxide Nanowire Fieldâ€Effect Transistors. Advanced Functional Materials, 2013, 23, 1750-1758.	7.8	86
6	Intercalationâ€Driven Reversible Control of Magnetism in Bulk Ferromagnets. Advanced Materials, 2014, 26, 4639-4644.	11.1	85
7	Voltageâ€Control of Magnetism in Allâ€Solidâ€State and Solid/Liquid Magnetoelectric Composites. Advanced Materials, 2019, 31, e1806662.	11.1	82
8	Above room temperature spin transition in a metallo-supramolecular coordination oligomer/polymer. Chemical Communications, 2007, , 2636.	2.2	81
9	A General Route toward Complete Room Temperature Processing of Printed and High Performance Oxide Electronics. ACS Nano, 2015, 9, 3075-3083.	7.3	78
10	Printed and Electrochemically Gated, Highâ€Mobility, Inorganic Oxide Nanoparticle FETs and Their Suitability for Highâ€Frequency Applications. Advanced Functional Materials, 2012, 22, 4909-4919.	7.8	75
11	Spin Transition in a Chainlike Supramolecular Iron(II) Complex. Inorganic Chemistry, 2006, 45, 10019-10021.	1.9	71
12	Ink-Jet Printed CMOS Electronics from Oxide Semiconductors. Small, 2015, 11, 3591-3596.	5.2	70
13	Toward Onâ€andâ€Off Magnetism: Reversible Electrochemistry to Control Magnetic Phase Transitions in Spinel Ferrites. Advanced Functional Materials, 2016, 26, 7507-7515.	7.8	69
14	Electrolyte-Gated, High Mobility Inorganic Oxide Transistors from Printed Metal Halides. ACS Applied Materials & Interfaces, 2013, 5, 11498-11502.	4.0	67
15	<i>In situ</i> magnetometry studies of magnetoelectric LSMO/PZT heterostructures. Physical Review B, 2013, 87, .	1.1	63
16	External electric field driven 3D ordering architecture of silver (I) oxide meso-superstructures. Nano Today, 2010, 5, 175-182.	6.2	61
17	Magnetic properties of high entropy oxides. Dalton Transactions, 2021, 50, 1973-1982.	1.6	56
18	Hybrid supercapacitors for reversible control of magnetism. Nature Communications, 2017, 8, 15339.	5.8	51

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19	Lattice-solvent controlled spin transitions in iron(ii) complexes. Dalton Transactions, 2007, , 3531.	1.6	49
20	Magnetic properties of rare-earth and transition metal based perovskite type high entropy oxides. Journal of Applied Physics, 2020, 127, .	1.1	48
21	Lithium containing layered high entropy oxide structures. Scientific Reports, 2020, 10, 18430.	1.6	47
22	Role of intermediate 4 <i>f</i> states in tuning the band structure of high entropy oxides. APL Materials, 2020, 8, .	2.2	47
23	Mechanochemical synthesis of novel rutile-type high entropy fluorides for electrocatalysis. Journal of Materials Chemistry A, 2021, 9, 8998-9009.	5.2	45
24	Crystallographic and Magnetic Structure of the Perovskite-Type Compound BaFeO _{2.5} : Unrivaled Complexity in Oxygen Vacancy Ordering. Inorganic Chemistry, 2014, 53, 5911-5921.	1.9	44
25	The interplay of iron(ii) spin transition and polymorphism. Dalton Transactions, 2012, 41, 5163.	1.6	43
26	Voltageâ€Controlled On/Off Switching of Ferromagnetism in Manganite Supercapacitors. Advanced Materials, 2018, 30, 1703908.	11.1	43
27	Local Structural Disorder and Relaxation in SnO ₂ Nanostructures Studied by ¹¹⁹ Sn MAS NMR and ¹¹⁹ Sn MA¶ssbauer Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 6433-6437.	1.5	40
28	High-Performance All-Printed Amorphous Oxide FETs and Logics with Electronically Compatible Electrode/Channel Interface. ACS Applied Materials & amp; Interfaces, 2018, 10, 22408-22418.	4.0	39
20	Comprehensive investigation of crystallographic, spin-electronic and magnetic structure of <mml:math <="" td="" xmlns:mml="http://www.w3.org/1998/Math/MathML"><td></td><td></td></mml:math>		

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37	Thermal and Photoinduced Spin Crossover in a Mononuclear Iron(II) Complex with a Bis(pyrazolyl)pyridine Type of Ligand. European Journal of Inorganic Chemistry, 2013, 2013, 1049-1057.	1.0	24
38	Electrochemical Tuning of Magnetism in Ordered Mesoporous Transition-Metal Ferrite Films for Micromagnetic Actuation. ACS Applied Nano Materials, 2018, 1, 65-72.	2.4	24
39	Tailoring magnetic frustration in strained epitaxial FeRh films. Physical Review B, 2016, 93, .	1.1	22
40	The power of <i>inâ€situ</i> pulsed laser deposition synchrotron characterization for the detection of domain formation during growth of Ba _{0.5} Sr _{0.5} TiO ₃ on MgO. Journal of Synchrotron Radiation, 2014, 21, 386-394.	1.0	19
41	Development of Fully Printed Electrolyte-Gated Oxide Transistors Using Graphene Passive Structures. ACS Applied Electronic Materials, 2019, 1, 1538-1544.	2.0	19
42	Combination of pulsed laser ablation and inert gas condensation for the synthesis of nanostructured nanocrystalline, amorphous and composite materials. Nanoscale Advances, 2019, 1, 4513-4521.	2.2	18
43	Proton Conduction in Grain-Boundary-Free Oxygen-Deficient BaFeO2.5+δThin Films. Materials, 2018, 11, 52.	1.3	17
44	Temperature tolerance study of high performance electrochemically gated SnO2 nanowire field-effect transistors. Journal of Materials Chemistry C, 2013, 1, 2534.	2.7	16
45	Room temperature reversible tuning of magnetism of electrolyte-gated La0.75Sr0.25MnO3 nanoparticles. Journal of Applied Physics, 2013, 113, .	1.1	16
46	Clusterâ€Assembled Nanocomposites: Functional Properties by Design. Advanced Materials, 2019, 31, e1806634.	11.1	16
47	Giant voltage-induced modification of magnetism in micron-scale ferromagnetic metals by hydrogen charging. Nature Communications, 2020, 11, 4849.	5.8	16
48	Ferroelectric vs. structural properties of large-distance sputtered epitaxial LSMO/PZT heterostructures. AIP Advances, 2012, 2, .	0.6	15
49	Anion Doping of Ferromagnetic Thin Films of La0.74Sr0.26MnO3â^î^via Topochemical Fluorination. Materials, 2018, 11, 1204.	1.3	15
50	Determining role of individual cations in high entropy oxides: Structure and reversible tuning of optical properties. Scripta Materialia, 2022, 207, 114273.	2.6	15
51	Magnetoelectric Tuning of Pinningâ€Type Permanent Magnets through Atomicâ€Scale Engineering of Grain Boundaries. Advanced Materials, 2021, 33, 2006853.	11.1	13
52	Anion ordering, magnetic structure and properties of the vacancy ordered perovskite Ba3Fe3O7F. Journal of Solid State Chemistry, 2016, 243, 31-37.	1.4	11
53	Observation of electrochemically active Fe ³⁺ /Fe ⁴⁺ in LiCo _{0.8} Fe _{0.2} MnO ₄ by <i>in situ</i> MŶssbauer spectroscopy and X-ray absorption spectroscopy. Physical Chemistry Chemical Physics, 2019, 21, 89-95.	1.3	11
54	Ni ₆₀ Nb ₄₀ Nanoglass for Tunable Magnetism and Methanol Oxidation. ACS Applied Nano Materials, 2020, 3, 7252-7259.	2.4	11

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55	Fully Printed Inverters using Metalâ€Oxide Semiconductor and Graphene Passives on Flexible Substrates. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000252.	1.2	11
56	Magnetoelectric materials, phenomena, and devices. APL Materials, 2021, 9, .	2.2	11
57	Facile fabrication of electrolyte-gated single-crystalline cuprous oxide nanowire field-effect transistors. Nanotechnology, 2016, 27, 415205.	1.3	9
58	Magnetic Tb ₇₅ Fe ₂₅ Nanoglass for Cryogenic Permanent Magnet Undulator. ACS Applied Nano Materials, 2020, 3, 7281-7290.	2.4	9
59	Magnetic properties of iron cluster/chromium matrix nanocomposites. Beilstein Journal of Nanotechnology, 2015, 6, 1158-1163.	1.5	8
60	Controlling the structure and magnetic properties of cluster-assembled metallic glasses. Materials Horizons, 2019, 6, 727-732.	6.4	8
61	Magnetotransport Properties of Ferromagnetic Nanoparticles in a Semiconductor Matrix Studied by Precise Size-Selective Cluster Ion Beam Deposition. Nanomaterials, 2020, 10, 2192.	1.9	7
62	Ceramic synthesis of disordered lithium rich oxyfluoride materials. Journal of Power Sources, 2020, 467, 228230.	4.0	7
63	Bulk Nanostructured Materials: Nonâ€Mechanical Synthesis. Advanced Engineering Materials, 2010, 12, 666-676.	1.6	6
64	Structure and conductivity of epitaxial thin films of barium ferrite and its hydrated form BaFeO2.5â^'x+Î (OH)2x. Journal Physics D: Applied Physics, 2017, 50, 115302.	1.3	6
65	Epitaxial strain-engineered self-assembly of magnetic nanostructures in FeRh thin films. Journal Physics D: Applied Physics, 2017, 50, 025007.	1.3	6
66	Reversible control of magnetism: on the conversion of hydrated FeF ₃ with Li to Fe and LiF. Journal of Materials Chemistry A, 2019, 7, 24005-24011.	5.2	6
67	Nanowire facilitated transfer of sensitive TEM samples in a FIB. Ultramicroscopy, 2020, 219, 113075.	0.8	6
68	Epitaxial strain adaptation in chemically disordered FeRh thin films. Physical Review B, 2019, 99, .	1.1	5
69	Structural and Magnetic Properties of BaFeO _{2.667} Synthesized by Oxidizing BaFeO _{2.5} Obtained via Nebulized Spray Pyrolysis. Inorganic Chemistry, 2021, 60, 10923-10933.	1.9	4
70	Printing Technologies for Integration of Electronic Devices and Sensors. NATO Science for Peace and Security Series C: Environmental Security, 2020, , 1-34.	0.1	4
71	Robust Macroscopic Polarization of Block Copolymer–Templated Mesoporous Perovskiteâ€Type Thinâ€Film Ferroelectrics. Advanced Electronic Materials, 2019, 5, 1800287	2.6	3
72	ALD-Derived, Low-Density Alumina as Solid Electrolyte in Printed Low-Voltage FETs. IEEE Transactions on Electron Devices, 2020, 67, 3828-3833.	1.6	3

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73	Creating a Ferromagnetic Ground State with <i>T</i> _c Above Room Temperature in a Paramagnetic Alloy through Nonâ€Equilibrium Nanostructuring. Advanced Materials, 2022, 34, e2108793.	11.1	3
74	In situ Lorentz Transmission Electron Microscopy of FeRh Thin Films. Microscopy and Microanalysis, 2018, 24, 934-935.	0.2	2
75	Electricâ€Potentialâ€Induced Complete Control of Magnetization in MnZnSb Metallic Ferromagnets. Advanced Electronic Materials, 2021, 7, 2000790.	2.6	2
76	Dealloying-induced phase transformation in Fe–Rh alloys. Applied Physics Letters, 2022, 120, 141904.	1.5	1
77	Structural insights into metal-metalloid glasses from mass spectrometry. Scientific Reports, 2020, 10, 17467.	1.6	0