Kornelius Nielsch

List of Publications by Year
in descending order

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423 papers	22,051 citations	14644 66 h-index	11601 135 g-index
439 all docs	439 docs citations	439 times ranked	18794 citing authors

#	Article	IF	Citations
1	Robust Magneto-Ionic Effect in Fe/FeO _x Thin Films in Electrolytes With Different Cations. IEEE Transactions on Magnetics, 2022, 58, 1-8.	1.2	1
2	Electrocaloric temperature changes in epitaxial Ba1â^'xSrxTiO3 films. Journal of Alloys and Compounds, 2022, 891, 162041.	2.8	7
3	Effect of Powder ALD Interface Modification on the Thermoelectric Performance of Bismuth. Advanced Materials Technologies, 2022, 7, 2100953.	3.0	20
4	Geometric Study of Polymer Embedded Micro Thermoelectric Cooler with Optimized Contact Resistance. Advanced Electronic Materials, 2022, 8, .	2.6	9
5	MOFâ€Derived Onionâ€Like Carbon with Superior Surface Area and Porosity for High Performance Lithiumâ€Ion Capacitors. Batteries and Supercaps, 2022, 5, .	2.4	6
6	Lowâ€Temperature Atomic Layer Deposition of Highâ€k SbO_x for Thin Film Transistors. Advanced Electronic Materials, 2022, 8, .	2.6	12
7	Mobility-enhanced thermoelectric performance in textured nanograin Bi2Se3, effect on scattering and surface-like transport. Materials Today Physics, 2022, 24, 100669.	2.9	5
8	Crystal Structure Analysis and Magnetoâ€Transport Investigation of Co_{1â^'x}Fe_xSi (with xÂ= 0% to xÂ= 20%). Advanced Electronic Materials, 2022, 8, .	2.6	0
9	Study of the Annealing Effects of Sputtered Bi₂Te₃ Thin Films with Full Thermoelectric Figure of Merit Characterization. Physica Status Solidi - Rapid Research Letters, 2022, 16, .	1.2	3
10	Surface Modification of Bismuth by ALD of Antimony Oxide for Suppressing Lattice Thermal Conductivity. ACS Applied Energy Materials, 2022, 5, 4041-4046.	2.5	9
11	Characteristics of ALDâ€ZnO Thin Film Transistor Using H₂O and H₂O₂ as Oxygen Sources. Advanced Materials Interfaces, 2022, 9, .	1.9	19
12	A robust thermoelectric module based on MgAgSb/Mg₃(Sb,Bi)₂with a conversion efficiency of 8.5% and a maximum cooling of 72 K. Energy and Environmental Science, 2022, 15, 2557-2566.	15.6	42
13	Coreâ€“Shell GaAs-Fe Nanowire Arrays: Fabrication Using Electrochemical Etching and Deposition and Study of Their Magnetic Properties. Nanomaterials, 2022, 12, 1506.	1.9	12
14	Atomic layer deposition of yttrium iron garnet thin films. Physical Review Materials, 2022, 6, .	0.9	6
15	Geometrical Optimization and Thermalâ€Stability Characterization of Teâ€Free Thermoelectric Modules Based on MgAgSb/Mg₃(Bi,Sb)₂. Small, 2022, 18, e2201183.	5.2	16
16	Estimating thin-film thermal conductivity by optical pump thermoreflectance imaging and finite element analysis. Journal of Applied Physics, 2022, 131, .	1.1	2
17	Epitaxial NiTi Thin Films: A 3D Puzzle. , 2022, , .		0
18	Improving the thermoelectric performance of ZrNi(In,Sb)-based double half-Heusler compounds. Journal of Materials Chemistry A, 2022, 10, 13476-13483.	5.2	13

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19	Mg₃(Bi,Sb)₂-based thermoelectric modules for efficient and reliable waste-heat utilization up to 750 K. Energy and Environmental Science, 2022, 15, 3265-3274.	15.6	26
20	Micro-thermoelectric devices. Nature Electronics, 2022, 5, 333-347.	13.1	84
21	Building Hierarchical Martensite. Advanced Functional Materials, 2021, 31, 2005715.	7.8	30
22	Heterostructured Bismuth Telluride Selenide Nanosheets for Enhanced Thermoelectric Performance. Small Science, 2021, 1, 2000021.	5.8	16
23	Influence of Nanoparticle Processing on the Thermoelectric Properties of (Bi x Sb 1â^'X) 2 Te 3 Ternary Alloys. ChemistryOpen, 2021, 10, 189-198.	0.9	2
24	Oxygenâ€Doped Carbon Nitride Tubes for Highly Stable Lithiumâ€“Sulfur Batteries. Energy Technology, 2021, 9, 2001057.	1.8	10
25	Phase Selection in Mnâ€“Si Alloys by Fast Solidâ€State Reaction with Enhanced Skyrmion Stability. Advanced Functional Materials, 2021, 31, 2009723.	7.8	9
26	Hierarchical Martensite: Building Hierarchical Martensite (Adv. Funct. Mater. 7/2021). Advanced Functional Materials, 2021, 31, 2170046.	7.8	0
27	Towards tellurium-free thermoelectric modules for power generation from low-grade heat. Nature Communications, 2021, 12, 1121.	5.8	118
28	Efficiency of Magnetostatic Protection Using Nanostructured Permalloy Shielding Coatings Depending on Their Microstructure. Nanomaterials, 2021, 11, 634.	1.9	10
29	Advances in magneto-ionic materials and perspectives for their application. APL Materials, 2021, 9, .	2.2	37
30	Influence of Alumina Addition on the Optical Properties and the Thermal Stability of Titania Thin Films and Inverse Opals Produced by Atomic Layer Deposition. Nanomaterials, 2021, 11, 1053.	1.9	8
31	Structural and Electric Properties of Epitaxial Na0.5Bi0.5TiO3-Based Thin Films. Coatings, 2021, 11, 651.	1.2	3
32	Magnetoionic control of perpendicular exchange bias. Physical Review Materials, 2021, 5, .	0.9	14
33	Magnetocaloric properties and specifics of the hysteresis at the first-order metamagnetic transition in Ni-doped FeRh. Physical Review Materials, 2021, 5, .	0.9	9
34	Transparent Powerâ€Generating Windows Based on Solarâ€Thermalâ€Electric Conversion. Advanced Energy Materials, 2021, 11, 2101213.	10.2	21
35	Nonreciprocity of spin waves in magnetic nanotubes with helical equilibrium magnetization. Applied Physics Letters, 2021, 118, .	1.5	18
36	Highâ€Pressureâ€Sinteringâ€Induced Microstructural Engineering for an Ultimate Phonon Scattering of Thermoelectric Halfâ€Heusler Compounds. Small, 2021, 17, e2102045.	5.2	17

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37	Dynamic Characteristics of a Superconducting Magnetic Bearing Under Î¼m Displacements. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	2
38	Reduced Lattice Thermal Conductivity for Half-Heusler ZrNiSn through Cryogenic Mechanical Alloying. ACS Applied Materials & Interfaces, 2021, 13, 38561-38568.	4.0	28
39	Can gadolinium compete with La-Fe-Co-Si in a thermomagnetic generator?. Science and Technology of Advanced Materials, 2021, 22, 643-657.	2.8	9
40	Current Stateâ€ofâ€theâ€Art in the Interface/Surface Modification of Thermoelectric Materials. Advanced Energy Materials, 2021, 11, 2101877.	10.2	37
41	B20â€“MnSi films grown on Si(100) substrates with magnetic skyrmion signature. Materials Today Physics, 2021, 21, 100541.	2.9	2
42	High-Performance n-Type Ge-Free Silicon Thermoelectric Material from Silicon Waste. ACS Applied Materials & Interfaces, 2021, 13, 47912-47920.	4.0	4
43	Comparative study of Fe(Se,Te) thin films on flexible coated conductor templates and single-crystal substrates. Superconductor Science and Technology, 2021, 34, 115013.	1.8	6
44	Selfâ€Patterning of Multifunctional Heusler Membranes by Dewetting. Advanced Materials Interfaces, 2021, 8, 2100966.	1.9	3
45	Interfaceâ€Dominated Topological Transport in Nanograined Bulk Bi₂Te₃. Small, 2021, 17, e2103281.	5.2	7
46	Efficient and affordable thermomagnetic materials for harvesting low grade waste heat. APL Materials, 2021, 9, .	2.2	31
47	State with spontaneously broken time-reversal symmetry above the superconducting phase transition. Nature Physics, 2021, 17, 1254-1259.	6.5	41
48	Dependency of hysteretic loss on speed and tilt in a rotating superconducting magnetic bearing. Superconductor Science and Technology, 2021, 34, 125004.	1.8	1
49	Current Stateâ€ofâ€theâ€Art in the Interface/Surface Modification of Thermoelectric Materials (Adv.) Tj ETQq1 1 0.784314 rgBT /Ove	10.2	0
50	Influence of the magnet aspect ratio on the dynamic stiffness of a rotating superconducting magnetic bearing. Journal Physics D: Applied Physics, 2020, 53, 035002.	1.3	10
51	Origins of strength and plasticity in the precious metal based high-entropy alloy AuCuNiPdPt. Acta Materialia, 2020, 185, 400-411.	3.8	30
52	Signatures of a Charge Density Wave Phase and the Chiral Anomaly in the Fermionic Material Cobalt Monosilicide CoSi. Advanced Electronic Materials, 2020, 6, 1900857.	2.6	8
53	Signatures of the Magnetic Entropy in the Thermopower Signals in Nanoribbons of the Magnetic Weyl Semimetal Co₃Sn₂S₂. Nano Letters, 2020, 20, 300-305.	4.5	23
54	Voltage-controlled ON switching and manipulation of magnetization via the redox transformation of Î²-FeOOH nanoplatelets. Journal Physics D: Applied Physics, 2020, 53, 084001.	1.3	10

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55	Unveiling the phonon scattering mechanisms in half-Heusler thermoelectric compounds. Energy and Environmental Science, 2020, 13, 5165-5176.	15.6	49
56	Control of Positive and Negative Magnetoresistance in Iron Oxideâ€“Iron Nanocomposite Thin Films for Tunable Magnetoelectric Nanodevices. ACS Applied Electronic Materials, 2020, 2, 2543-2549.	2.0	18
57	Influencing Martensitic Transition in Epitaxial Ni-Mn-Ga-Co Films with Large Angle Grain Boundaries. Materials, 2020, 13, 3674.	1.3	4
58	Voltageâ€Controlled Deblocking of Magnetization Reversal in Thin Films by Tunable Domain Wall Interactions and Pinning Sites. Advanced Electronic Materials, 2020, 6, 2000406.	2.6	20
59	Fast Fourier transform and multi-Gaussian fitting of XRR data to determine the thickness of ALD grown thin films within the initial growth regime. Applied Physics Letters, 2020, 117, 213106.	1.5	4
60	Superconductivity with broken time-reversal symmetry inside a superconducting s-wave state. Nature Physics, 2020, 16, 789-794.	6.5	59
61	Increasing the Diversity and Understanding of Semiconductor Nanoplatelets by Colloidal Atomic Layer Deposition. Physica Status Solidi - Rapid Research Letters, 2020, 14, 2000282.	1.2	5
62	Rapid thermal annealing of Sb2Te3 thin films grown via atomic layer deposition. Thin Solid Films, 2020, 700, 137922.	0.8	0
63	Waste Recycling in Thermoelectric Materials. Advanced Energy Materials, 2020, 10, 1904159.	10.2	62
64	Electrochemical nanostructuring of (111) oriented GaAs crystals: from porous structures to nanowires. Beilstein Journal of Nanotechnology, 2020, 11, 966-975.	1.5	14
65	Thermoelectric Characterization Platform for Electrochemically Deposited Materials. Advanced Electronic Materials, 2020, 6, 1901288.	2.6	3
66	Thickness dependence of the anomalous Nernst effect and the Mott relation of Weyl semimetal <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Co</mml:mi><mml:mn>2</mml:mn></mml: thin films. Physical Review B, 2020, 101, .	1.1	40
67	Breakdown of Varvenne scaling in (AuNiPdPt)<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si4.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Cu high-entropy alloys. Scripta Materialia, 2020, 181, 15-18.	2.6	17
68	Ionic Liquid-Based Low-Temperature Synthesis of Phase-Pure Tetradymite-Type Materials and Their Thermoelectric Properties. Inorganic Chemistry, 2020, 59, 3428-3436.	1.9	11
69	Doping Highâ€Mobility Donorâ€“Acceptor Copolymer Semiconductors with an Organic Salt for Highâ€Performance Thermoelectric Materials. Advanced Electronic Materials, 2020, 6, 1900945.	2.6	30
70	Analysis of Electronic Properties from Magnetotransport Measurements on Ba(Fe1â^’xNix)2As2 Thin Films. Materials, 2020, 13, 630.	1.3	0
71	Electrical and Photoelectrical Properties of Zn1â^’xMgxO Thin Films Obtained by Spin Coating and Aerosol Deposition Method. IFMBE Proceedings, 2020, , 105-109.	0.2	1
72	Wettability control of polymeric microstructures replicated from laser-patterned stamps. Scientific Reports, 2020, 10, 22428.	1.6	16

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73	Analysis of the high-speed rotary motion of a superconducting magnetic bearing during ring spinning. Engineering Research Express, 2020, 2, 035039.	0.8	3
74	Electronic entropy change in Ni-doped FeRh. Materials Today Physics, 2019, 9, 100129.	2.9	7
75	Magneto-thermoelectric characterization of a HfTe5 micro-ribbon. Applied Physics Letters, 2019, 115, .	1.5	5
76	Focused ion beam modification of non-local magnon-based transport in yttrium iron garnet/platinum heterostructures. Applied Physics Letters, 2019, 114, 252401.	1.5	6
77	Spin Hall magnetoresistance in heterostructures consisting of noncrystalline paramagnetic YIG and Pt. Applied Physics Letters, 2019, 114, .	1.5	13
78	Electrochemical Deposition by Design of Metal Nanostructures. Surface Engineering and Applied Electrochemistry, 2019, 55, 367-372.	0.3	8
79	Thermoelectric properties of Au and Ti nanofilms, characterized with a novel measurement platform. Materials Today: Proceedings, 2019, 8, 517-522.	0.9	5
80	Towards Uniform Electrochemical Porosification of Bulk HVPE-Grown GaN. Journal of the Electrochemical Society, 2019, 166, H3159-H3166.	1.3	7
81	Transition to the quantum hall regime in InAs nanowire cross-junctions. Semiconductor Science and Technology, 2019, 34, 035028.	1.0	4
82	Nonvolatile Electric Control of Exchange Bias by a Redox Transformation of the Ferromagnetic Layer. Advanced Electronic Materials, 2019, 5, 1900296.	2.6	32
83	Magnetoresistance and anomalous Hall effect in micro-ribbons of the magnetic Weyl semimetal Co3Sn2S2. Applied Physics Letters, 2019, 114, .	1.5	22
84	Preparation and nanoscale characterization of electrodeposited CoFe-Cu multilayer nanowires. Materials Chemistry and Physics, 2019, 230, 231-238.	2.0	11
85	Chemical Aspects of the Candidate Antiferromagnetic Topological Insulator MnBi₂Te₄. Chemistry of Materials, 2019, 31, 2795-2806.	3.2	203
86	Atomic Layer Deposition: 2D Transition Metal Dichalcogenide Thin Films Obtained by Chemical Gas Phase Deposition Techniques (Adv. Mater. Interfaces 3/2019). Advanced Materials Interfaces, 2019, 6, 1970024.	1.9	1
87	Energy harvesting near room temperature using a thermomagnetic generator with a pretzel-like magnetic flux topology. Nature Energy, 2019, 4, 68-74.	19.8	70
88	Thermoelectric properties of silicon and recycled silicon sawing waste. Journal of Materiomics, 2019, 5, 15-33.	2.8	24
89	Discovery of TaFeSb-based half-Heuslers with high thermoelectric performance. Nature Communications, 2019, 10, 270.	5.8	227
90	Design Guidelines for Microâ€Thermoelectric Devices by Finite Element Analysis. Advanced Sustainable Systems, 2019, 3, 1800093.	2.7	7

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91	2D Transition Metal Dichalcogenide Thin Films Obtained by Chemical Gas Phase Deposition Techniques. Advanced Materials Interfaces, 2019, 6, 1800688.	1.9	21
92	Electrical Detection and Magnetic Imaging of Stabilized Magnetic Skyrmions in Fe_{1â^'}_xCo_xGe (x < 0.1) Microplates. Advanced Functional Materials, 2019, 29, 1805418.	7.8	19
93	Influence of artificial pinning centers on structural and superconducting properties of thick YBCO films on ABAD-YSZ templates. Superconductor Science and Technology, 2018, 31, 044007.	1.8	18
94	Simulation of Force Generation Above Magnetic Tracks for Superconducting Levitation Systems. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	7
95	Understanding the Growth Mechanisms of Multilayered Systems in Atomic Layer Deposition Process. Chemistry of Materials, 2018, 30, 1971-1979.	3.2	17
96	Quantum materials for thermoelectricity. MRS Bulletin, 2018, 43, 187-192.	1.7	46
97	Thick Secondary Phase Pinning-Enhanced YBCO Films on Technical Templates. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	7
98	BaZr_xTi_{1â^'x}O₃ Epitaxial Thin Films for Electrocaloric Investigations. Energy Technology, 2018, 6, 1526-1534.	1.8	6
99	Reducing Hysteresis Losses by Heating Minor Loops in Magnetocaloric Niâ€“Mnâ€“Gaâ€“Co Films. Energy Technology, 2018, 6, 1463-1469.	1.8	14
100	Air-Oxidation of Nb Nano-Films. Semiconductors, 2018, 52, 678-682.	0.2	4
101	Evolution of the spin hall magnetoresistance in Cr2O3/Pt bilayers close to the NÃ©el temperature. Applied Physics Letters, 2018, 112, .	1.5	55
102	Complete Thermoelectric Characterization of PEDOT:PSS Thin Films with a Novel ZT Test Chip Platform. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700930.	0.8	16
103	Advanced platform for the in-plane ZT measurement of thin films. Review of Scientific Instruments, 2018, 89, 015110.	0.6	55
104	Thermoelectric Devices: A Review of Devices, Architectures, and Contact Optimization. Advanced Materials Technologies, 2018, 3, 1700256.	3.0	259
105	Surface Modification of Vâ€“VI Semiconductors Using Exchange Reactions within ALD Halfâ€Cycles. Advanced Materials Interfaces, 2018, 5, 1701155.	1.9	1
106	Role of Hydrogen Evolution during Epitaxial Electrodeposition of Fe on GaAs. Journal of the Electrochemical Society, 2018, 165, H3076-H3079.	1.3	10
107	Ultrahigh Power Factor in Thermoelectric System Nb_{0.95}M_{0.05}FeSb (M = Hf,) Tj ETQq1 1 0.784314 rgBT /O	5.6	45
108	Analytical Investigation of the Limits for the In-Plane Thermal Conductivity Measurement Using a Suspended Membrane Setup. Journal of Electronic Materials, 2018, 47, 3203-3209.	1.0	11

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109	Composition and diameter modulation of magnetic nanowire arrays fabricated by a novel approach. Nanotechnology, 2018, 29, 065602.	1.3	27
110	Reducing Thermal Hysteresis in Epitaxial Niâ€“Mnâ€“Gaâ€“Co Films by Transformation Cycling. Physica Status Solidi (B): Basic Research, 2018, 255, 1700330.	0.7	14
111	The Role of Spatial Coherence for the Creation of Atom Size Electron Vortex Beams. Microscopy and Microanalysis, 2018, 24, 920-921.	0.2	1
112	Large anomalous Nernst effect in thin films of the Weyl semimetal Co2MnGa. Applied Physics Letters, 2018, 113, .	1.5	92
113	Integrated microthermoelectric coolers with rapid response time and high device reliability. Nature Electronics, 2018, 1, 555-561.	13.1	70
114	Levitation force measurement on a switchable track for superconducting levitation systems. Superconductor Science and Technology, 2018, 31, 125007.	1.8	4
115	Universal scaling behavior of the upper critical field in strained FeSe_{0.7}Te_{0.3} thin films. New Journal of Physics, 2018, 20, 093012.	1.2	13
116	Induction Mapping of the 3D-Modulated Spin Texture of Skyrmions in Thin Helimagnets. Physical Review Letters, 2018, 120, 217201.	2.9	26
117	Probing the Martensitic Microstructure of Magnetocaloric Heusler Films by Synchrotron Diffraction. Energy Technology, 2018, 6, 1453-1462.	1.8	2
118	Modulations in martensitic Heusler alloys originate from nanotwin ordering. Scientific Reports, 2018, 8, 8489.	1.6	47
119	All-electrochemical voltage-control of magnetization in metal oxide/metal nanoislands. Journal of Materials Chemistry C, 2018, 6, 8411-8417.	2.7	30
120	Frequency linewidth and decay length of spin waves in curved magnetic membranes. Physical Review B, 2018, 98, .	1.1	11
121	Thickness and temperature dependent thermoelectric properties of Bi₈₇Sb₁₃ nanofilms measured with a novel measurement platform. Semiconductor Science and Technology, 2018, 33, 085014.	1.0	15
122	Two-Step Magnetization Reversal FORC Fingerprint of Coupled Bi-Segmented Ni/Co Magnetic Nanowire Arrays. Nanomaterials, 2018, 8, 548.	1.9	18
123	In-Situ Observation of the Reversible Electrochemical Deposition of Fe in a Transmission Electron Microscope. Microscopy and Microanalysis, 2018, 24, 310-311.	0.2	0
124	Towards Induction Mapping of the 3D Spin Texture of Skyrmions. Microscopy and Microanalysis, 2018, 24, 930-931.	0.2	1
125	Spin-hall-active platinum thin films grown via atomic layer deposition. Applied Physics Letters, 2018, 112, .	1.5	8
126	Discovery of ZrCoBi based half Heuslers with high thermoelectric conversion efficiency. Nature Communications, 2018, 9, 2497.	5.8	243

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127	Intra-wire coupling in segmented Ni/Cu nanowires deposited by electrodeposition. Nanotechnology, 2017, 28, 065709.	1.3	24
128	Influence of Substrate Tilt Angle on the Incorporation of BaHfO3 in Thick YBa2Cu 3O7â€Î´ Films. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.1	7
129	Design and Validation of Switchable Tracks for Superconducting Levitation Systems. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-5.	1.1	10
130	Influence of surface states and size effects on the Seebeck coefficient and electrical resistance of Bi1â^'xSbxnanowire arrays. Nanoscale, 2017, 9, 3169-3179.	2.8	17
131	Towards Independent Behavior of Magnetic Slabs. IEEE Magnetics Letters, 2017, 8, 1-5.	0.6	1
132	Gold Electroplating as a Tool for Assessing the Conductivity of InP Nanostructures Fabricated by Anodic Etching of Crystalline Substrates. Journal of the Electrochemical Society, 2017, 164, D179-D183.	1.3	11
133	Superconducting properties of Ba(Fe1â€“xNix)2As2 thin films in high magnetic fields. Applied Physics Letters, 2017, 110, .	1.5	17
134	Symmetry breaking of the surface mediated quantum Hall Effect in Bi ₂ Se ₃ nanoplates using Fe ₃ O ₄ substrates. 2D Materials, 2017, 4, 015044.	2.0	11
135	Aligned cuboid iron nanoparticles by epitaxial electrodeposition. Nanoscale, 2017, 9, 5315-5322.	2.8	8
136	Nucleation and growth of hierarchical martensite in epitaxial shape memory films. Acta Materialia, 2017, 132, 327-334.	3.8	46
137	Comments on â€Evidence of the hydrogen release mechanism in bulk MgH2â€. Scientific Reports, 2017, 7, 44216.	1.6	11
138	Effect of substrate miscut on the microstructure in epitaxial Pb(Mg 1/3 Nb 2/3)O 3 -PbTiO 3 thin films. Materials Characterization, 2017, 129, 234-241.	1.9	6
139	Highly porous Î±-Al2O3 ceramics obtained by sintering atomic layer deposited inverse opals. Ceramics International, 2017, 43, 11260-11264.	2.3	28
140	The effect of the microstructure on the antiferromagnetic to ferromagnetic transition in FeRh alloys. Acta Materialia, 2017, 131, 31-38.	3.8	33
141	Fabrication and Modeling of Integrated Micro-Thermoelectric Cooler by Template-Assisted Electrochemical Deposition. ECS Journal of Solid State Science and Technology, 2017, 6, N3022-N3028.	0.9	15
142	Superconductivity in Ni-Doped Baâ€“Feâ€“As Thin Films Prepared From Single-Crystal Targets Using PLD. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.1	9
143	Tailoring Microstructure and Superconducting Properties in Thick BaHfO3 and Ba2 Y(Nb/Ta)O6 Doped YBCO Films on Technical Templates. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-7.	1.1	12
144	Ternary, single-crystalline Bi2 (Te, Se)3 nanowires grown by electrodeposition. Acta Materialia, 2017, 125, 238-245.	3.8	12

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145	Lowâ€Temperature Mullite Formation in Ternary Oxide Coatings Deposited by ALD for Highâ€Temperature Applications. Advanced Materials Interfaces, 2017, 4, 1700912.	1.9	12
146	Electronic structure and magnetism of epitaxial Niâ€“Mnâ€“Ga(-Co) thin films with partial disorder: a view across the phase transition. Journal Physics D: Applied Physics, 2017, 50, 465005.	1.3	10
147	Temperature gradient-induced magnetization reversal of single ferromagnetic nanowires. Journal Physics D: Applied Physics, 2017, 50, 494007.	1.3	7
148	The influence of the in-plane lattice constant on the superconducting transition temperature of FeSe0.7Te0.3 thin films. AIP Advances, 2017, 7, 065015.	0.6	13
149	Experimental signatures of the mixed axialâ€“gravitational anomaly in the Weyl semimetal NbP. Nature, 2017, 547, 324-327.	13.7	222
150	Improved thermoelectric performance of n-type half-Heusler MCo1-xNixSb (MÂ=ÂHf, Zr). Materials Today Physics, 2017, 1, 24-30.	2.9	148
151	Atom size electron vortex beams with selectable orbital angular momentum. Scientific Reports, 2017, 7, 934.	1.6	24
152	Chiral magnetoresistance in the Weyl semimetal NbP. Scientific Reports, 2017, 7, 43394.	1.6	71
153	Photonic Materials: Lowâ€Temperature Mullite Formation in Ternary Oxide Coatings Deposited by ALD for Highâ€Temperature Applications (Adv. Mater. Interfaces 23/2017). Advanced Materials Interfaces, 2017, 4, 1770122.	1.9	1
154	Reversible tuning of magnetocaloricÂNi-Mn-Ga-Co films on ferroelectric PMN-PT substrates. Scientific Reports, 2017, 7, 14462.	1.6	7
155	Strain-induced Dirac state shift in topological insulator Bi2Se3 nanowires. Applied Physics Letters, 2017, 111, 171601.	1.5	14
156	Crossover between axial and radial magnetic anisotropy in self-organized permalloy nanowires. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2017, 223, 120-124.	1.7	11
157	Phase Imaging: A Compressive Sensing Approach. Microscopy and Microanalysis, 2017, 23, 94-95.	0.2	1
158	Digital Super-Resolution in EELS. Microscopy and Microanalysis, 2017, 23, 146-147.	0.2	0
159	Deposition and properties of Fe(Se,Te) thin films on vicinal CaF₂substrates. Superconductor Science and Technology, 2017, 30, 115008.	1.8	8
160	Face Centred Cubic Multi-Component Equiatomic Solid Solutions in the Au-Cu-Ni-Pd-Pt System. Metals, 2017, 7, 135.	1.0	25
161	Local Magnetic Suppression of Topological Surface States in Bi₂Te₃ Nanowires. ACS Nano, 2016, 10, 7180-7188.	7.3	8
162	Reducing the nucleation barrier in magnetocaloric Heusler alloys by nanoindentation. APL Materials, 2016, 4, .	2.2	29

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163	Research Update: Magnetoionic control of magnetization and anisotropy in layered oxide/metal heterostructures. APL Materials, 2016, 4, .	2.2	30
164	Platform for in-planeZTmeasurement and Hall coefficient determination of thin films in a temperature range from 120 K up to 450 K. Journal of Materials Research, 2016, 31, 3196-3204.	1.2	28
165	Structural and ferroelectric properties of epitaxial BaZr_xTi_{1â^'x}O₃thin films. Journal Physics D: Applied Physics, 2016, 49, 495303.	1.3	6
166	Influence of the polarization anisotropy on the electrocaloric effect in epitaxial PMN-PT thin films. Journal of Applied Physics, 2016, 120, .	1.1	9
167	Bottom-up Fabrication of Multilayer Stacks of 3D Photonic Crystals from Titanium Dioxide. ACS Applied Materials & Interfaces, 2016, 8, 10466-10476.	4.0	24
168	Long-Range Hexagonal Arrangement of TiO2 Nanotubes by Soft Lithography-Guided Anodization. Electrochimica Acta, 2016, 203, 51-58.	2.6	16
169	Electrochemical and in situ magnetic study of iron/iron oxide films oxidized and reduced in KOH solution for magneto-ionic switching. Electrochemistry Communications, 2016, 72, 153-156.	2.3	33
170	Thermoelectric Power Factor Enhancement by Spinâ€Polarized Currentsâ€"A Nanowire Case Study. Advanced Electronic Materials, 2016, 2, 1600058.	2.6	12
171	Surface effects on thermoelectric properties of metallic and semiconducting nanowires. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 557-570.	0.8	7
172	From thermoelectric bulk to nanomaterials: Current progress for Bi₂Te₃ and CoSb₃. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 739-749.	0.8	18
173	Monolithically Integrated Microelectromechanical Systems for On-Chip Strain Engineering of Quantum Dots. Nano Letters, 2016, 16, 5785-5791.	4.5	26
174	Fabrication of a micro-thermoelectric cooler for room temperature applications by template assisted electrodeposition. , 2016, , .		0
175	Magnetic and electrical characterization of nickel-rich NiFe thin films synthesized by atomic layer deposition and subsequent thermal reduction. Nanotechnology, 2016, 27, 345707.	1.3	22
176	Berry phase and band structure analysis of the Weyl semimetal NbP. Scientific Reports, 2016, 6, 33859.	1.6	36
177	The surface-to-volume ratio: a key parameter in the thermoelectric transport of topological insulator Bi₂Se₃nanowires. Nanoscale, 2016, 8, 13552-13557.	2.8	25
178	Fabrication of Chemically Tunable, Hierarchically Branched Polymeric Nanostructures by Multi-branched Anodic Aluminum Oxide Templates. Langmuir, 2016, 32, 6437-6444.	1.6	27
179	Electrochemically deposited nanocrystalline InSb thin films and their electrical properties. Journal of Materials Chemistry C, 2016, 4, 1345-1350.	2.7	23
180	Statistical magnetometry on isolated NiCo nanowires and nanowire arrays: a comparative study. Journal Physics D: Applied Physics, 2016, 49, 145005.	1.3	24

#	Article	IF	Citations
181	Magnetothermoelectric power in Co/Pt layered structures: Interface versus bulk contributions. Physical Review B, 2015, 92, .	1.1	7
182	Electrodeposition of Bi2Te3-Based Thin Films and Nanowires. , 2015, , 11-32.		1
183	Ab Initio Description of Thermoelectric Properties Based on the Boltzmann Theory. , 2015, , 187-221.		0
184	One-dimensional edge transport on the surface of cylindrical Bi_xTe_{3âˆ'y}Se_y nanowires in transverse magnetic fields. Applied Physics Letters, 2015, 107, 181602.	1.5	13
185	Bi2Te3Nanowires by Electrodeposition in Polymeric Etched Ion Track Membranes: Synthesis and Characterization. , 2015, , 33-53.		0
186	Old and New Things in Thermoelectricity. , 2015, , 1-10.		0
187	Development of a Thermoelectric Nanowire Characterization Platform (TNCP) for Structural and Thermoelectric Investigation of Single Nanowires. , 2015, , 253-281.		1
188	Advanced Structural Characterization of Bi2Te3Nanomaterials. , 2015, , 141-163.		0
189	Fabrication and Comprehensive Structural and Transport Property Characterization of Nanoalloyed Nanostructured V2VI3Thin Film Materials. , 2015, , 55-72.		0
190	Magnon contribution to the magnetoresistance of iron nanowires deposited using pulsed electrodeposition. Physica Status Solidi - Rapid Research Letters, 2015, 9, 255-258.	1.2	3
191	Thermoelectric Properties of Band Structure Engineered Topological Insulator (Bi_{1âˆ'x}Sb_x)₂Te₃ Nanowires. Advanced Energy Materials, 2015, 5, 1500280.	10.2	24
192	Measuring Techniques for Thermal Conductivity and Thermoelectric Figure of Merit of V-VI Compound Thin Films and Nanowires. , 2015, , 223-252.		1
193	Impact of the Topological Surface State on the Thermoelectric Transport in Sb₂Te₃ Thin Films. ACS Nano, 2015, 9, 4406-4411.	7.3	54
194	Unveiling the Hard Anodization Regime of Aluminum: Insight into Nanopores Self-Organization and Growth Mechanism. ACS Applied Materials & Interfaces, 2015, 7, 28682-28692.	4.0	64
195	Control of persistent photoconductivity in nanostructured InP through morphology design. Semiconductor Science and Technology, 2015, 30, 035014.	1.0	12
196	Self-Assembled Monolayer of Au Nanodots Deposited on Porous Semiconductor Structures. ECS Electrochemistry Letters, 2015, 4, D8-D10.	1.9	16
197	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>G</mml:mi><mml:mo>â€²</mml:mo></mml:msup></mml:math> in double- and triple-walled carbon nanotubes: A Raman study. Physical Review B, 2015, 91, .	1.1	15
198	Thermoelectric performance of classical topological insulator nanowires. Semiconductor Science and Technology, 2015, 30, 015015.	1.0	40

#	Article	IF	Citations
199	Synthesis of Iron Oxide Nanorods Using a Template Mediated Approach. Chemistry of Materials, 2015, 27, 4914-4917.	3.2	35
200	Current-driven vortex domain wall motion in wire-tube nanostructures. Applied Physics Letters, 2015, 106, .	1.5	12
201	Tuning the polarity of charge transport in InSb nanowires via heat treatment. Nanotechnology, 2015, 26, 285701.	1.3	14
202	Oersted field assisted magnetization reversal in cylindrical core-shell nanostructures. Journal of Applied Physics, 2015, 117, 173914.	1.1	14
203	Tailoring the nucleation of domain walls along multi-segmented cylindrical nanoelements. Nanotechnology, 2015, 26, 215701.	1.3	3
204	Enhanced structural and phase stability of titania inverse opals. Journal of the European Ceramic Society, 2015, 35, 3103-3109.	2.8	20
205	Dielectrophoretic investigation of Bi₂Te₃nanowiresâ€"a microfabricated thermoelectric characterization platform for measuring the thermoelectric and structural properties of single nanowires. Nanotechnology, 2015, 26, 125707.	1.3	6
206	Selfâ€Assembled Ultra High Strength, Ultra Stiff Mechanical Metamaterials Based on Inverse Opals. Advanced Engineering Materials, 2015, 17, 1420-1424.	1.6	48
207	Mechanism that governs the electro-optic response of second-order nonlinear polymers on silicon substrates. Optical Materials Express, 2015, 5, 1653.	1.6	9
208	TiO₂, SiO₂, and Al₂O₃coated nanopores and nanotubes produced by ALD in etched ion-track membranes for transport measurements. Nanotechnology, 2015, 26, 335301.	1.3	67
209	Silicon-supported aluminum oxide membranes with ultrahigh aspect ratio nanopores. RSC Advances, 2015, 5, 94283-94289.	1.7	9
210	Quantitative magnetometry analysis and structural characterization of multisegmented cobaltâ€"nickel nanowires. Journal of Magnetism and Magnetic Materials, 2015, 379, 294-299.	1.0	16
211	Thermal transport in nanoscale semiconductors. Semiconductor Science and Technology, 2014, 29, 120301.	1.0	1
212	Growth of ZnCdS single crystals and prospects of their application as nanoporous structures. Semiconductor Science and Technology, 2014, 29, 125003.	1.0	14
213	The effect of a distinct diameter variation on the thermoelectric properties of individual Bi_{0.39}Te_{0.61}nanowires. Semiconductor Science and Technology, 2014, 29, 124006.	1.0	22
214	Temperature and bias-voltage dependence of atomic-layer-deposited HfO2-based magnetic tunnel junctions. Applied Physics Letters, 2014, 105, .	1.5	8
215	Electrochemical synthesis of highly ordered nanowires with a rectangular cross section using an in-plane nanochannel array. Nanotechnology, 2014, 25, 504002.	1.3	7
216	Thermoelectric properties of topological insulator Bi2Te3, Sb2Te3, and Bi2Se3 thin film quantum wells. Applied Physics Letters, 2014, 105, .	1.5	75

#	Article	IF	Citations
217	Magnetic characterization and electrical field-induced switching of magnetite thin films synthesized by atomic layer deposition and subsequent thermal reduction. Journal Physics D: Applied Physics, 2014, 47, 485001.	1.3	19
218	Resolving the Dirac cone on the surface of Bi2Te3 topological insulator nanowires by field-effect measurements. Applied Physics Letters, 2014, 104, .	1.5	30
219	Kinetics of the charge ordering in magnetite below the Verwey temperature. Journal of Physics Condensed Matter, 2014, 26, 472202.	0.7	1
220	Thermopower engineering of Bi₂Te₃without alloying: the interplay between nanostructuring and defect activation. Semiconductor Science and Technology, 2014, 29, 064003.	1.0	26
221	The influence of a Te-depleted surface on the thermoelectric transport properties of Bi₂Te₃nanowires. Nanotechnology, 2014, 25, 365401.	1.3	10
222	Role of Intertube Interactions in Double- and Triple-Walled Carbon Nanotubes. ACS Nano, 2014, 8, 1330-1341.	7.3	24
223	Electrochemical synthesis of coaxial TiO₂â€“Ag nanowires and their application in photocatalytic water splitting. Journal of Materials Chemistry A, 2014, 2, 2648-2656.	5.2	36
224	Low Temperature Stabilization of Nanoscale Epitaxial Spinel Ferrite Thin Films by Atomic Layer Deposition. Advanced Functional Materials, 2014, 24, 5368-5374.	7.8	47
225	Templateâ€assisted Coâ€“Ni alloys and multisegmented nanowires with tuned magnetic anisotropy (Phys.) Tj ETQq1 1 0.784314 rgB	0.8	0
226	Constrained Order in Nanoporous Alumina with High Aspect Ratio: Smart Combination of Interference Lithography and Hard Anodization. Advanced Functional Materials, 2014, 24, 1857-1863.	7.8	31
227	Magnetothermopower and magnetoresistance of single Co-Ni/Cu multilayered nanowires. Physical Review B, 2014, 90, .	1.1	54
228	Formation of InP nanomembranes and nanowires under fast anodic etching of bulk substrates. Electrochemistry Communications, 2014, 47, 29-32.	2.3	21
229	Polymer-Assisted Self-Assembly of Superparamagnetic Iron Oxide Nanoparticles into Well-Defined Clusters: Controlling the Collective Magnetic Properties. Langmuir, 2014, 30, 11190-11196.	1.6	41
230	Templateâ€assisted Coâ€“Ni alloys and multisegmented nanowires with tuned magnetic anisotropy. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1041-1047.	0.8	45
231	Are Binary Copper Sulfides/Selenides Really New and Promising Thermoelectric Materials?. Advanced Energy Materials, 2014, 4, 1301581.	10.2	227
232	Deposition of topological insulator Sb2Te3 films by an MOCVD process. Journal of Materials Chemistry A, 2014, 2, 8215.	5.2	44
233	Magnetothermoelectric figure of merit of Co/Cu multilayers. Applied Physics Letters, 2014, 104, 092411.	1.5	12
234	Electrochemical synthesis and magnetic characterization of periodically modulated Co nanowires. Nanotechnology, 2014, 25, 145301.	1.3	50

#	Article	IF	Citations
235	Porosification of IIIâ€“V and IIâ€“VI Semiconductor Compounds. Journal of Nanoelectronics and Optoelectronics, 2014, 9, 307-311.	0.1	14
236	Electroplating and magnetostructural characterization of multisegmented Co54Ni46/Co85Ni15 nanowires from single electrochemical bath in anodic alumina templates. Nanoscale Research Letters, 2013, 8, 263.	3.1	54
237	Thermoelectric Characterization of Bismuth Telluride Nanowires, Synthesized Via Catalytic Growth and Postâ€Annealing. Advanced Materials, 2013, 25, 239-244.	11.1	74
238	Magnetic properties of multisegmented cylindrical nanoparticles with alternating magnetic wire and tube segments. Journal of Magnetism and Magnetic Materials, 2013, 346, 171-174.	1.0	23
239	Multisegmented nanotubes by surface-selective atomic layer deposition. Journal of Materials Chemistry C, 2013, 1, 621-625.	2.7	11
240	Thermoelectric power factor of ternary single-crystalline Sb₂Te₃- and Bi₂Te₃-based nanowires. Nanotechnology, 2013, 24, 495402.	1.3	37
241	Electrical conductivity and Seebeck coefficient measurements of single nanowires by utilizing a microfabricated thermoelectric nanowire characterization platform. , 2013, , .		10
242	Large Thermoelectric Power Factor Enhancement Observed in InAs Nanowires. Nano Letters, 2013, 13, 4080-4086.	4.5	107
243	Phonon spectroscopy in a Bi2Te3 nanowire array. Nanoscale, 2013, 5, 10629.	2.8	15
244	Thermoelectric Properties Investigation of Single nanowires by utilizing a Thermoelectric Nanowire Characterization Platform. , 2013, , .		1
245	Rapid, conformal gas-phase formation of silica (SiO2) nanotubes from water condensates. Nanoscale, 2013, 5, 5825.	2.8	7
246	Dreiwandige Kohlenstoff-NanorÃ¶hren atmen lassen. Physik in Unserer Zeit, 2013, 44, 215-216.	0.0	0
247	Investigation on the homogeneity of pulsed electrochemically deposited thermoelectric films with synchrotron Î¼-XRF, Î¼-XRD and Î¼-XANES. Journal of Materials Chemistry A, 2013, 1, 4215.	5.2	3
248	Confined crystallization of anatase TiO2 nanotubes and their implications on transport properties. Journal of Materials Chemistry A, 2013, 1, 14080.	5.2	26
249	Characterization of Bundled and Individual Triple-Walled Carbon Nanotubes by Resonant Raman Spectroscopy. ACS Nano, 2013, 7, 2381-2387.	7.3	30
250	Magnetic properties of cylindrical diameter modulated Ni80Fe20 nanowires: interaction and coercive fields. Nanoscale, 2013, 5, 3941.	2.8	75
251	Anisotropic magnetothermal resistance in Ni nanowires. Physical Review B, 2013, 87, .	1.1	23
252	Thermoelectric transport and Hall measurements of low defect Sb₂Te₃thin films grown by atomic layer deposition. Semiconductor Science and Technology, 2013, 28, 035010.	1.0	65

#	Article	IF	Citations
253	Changes in Morphology and Ionic Transport Induced by ALD SiO₂ Coating of Nanoporous Alumina Membranes. ACS Applied Materials & Interfaces, 2013, 5, 3556-3564.	4.0	68
254	Domain wall control in wire-tube nanoelements. Applied Physics Letters, 2013, 102, 202407.	1.5	20
255	Aharonov-Bohm oscillations and weak antilocalization in topological insulator Sb2Te3 nanowires. Applied Physics Letters, 2013, 102, .	1.5	54
256	Field-dependent thermal conductivity and Lorenz number in Co/Cu multilayers. Physical Review B, 2013, 87, .	1.1	18
257	Optimizations of Pulsed Plated p and nâ€type Bi₂Te₃â€Based Ternary Compounds by Annealing in Different Ambient Atmospheres. Advanced Energy Materials, 2013, 3, 95-104.	10.2	77
258	Photonic properties of titania inverse opal heterostructures. Optical Materials Express, 2013, 3, 1007.	1.6	20
259	Gate voltage induced phase transition in magnetite nanowires. Applied Physics Letters, 2013, 102, 073112.	1.5	21
260	Magnetotransport and thermopower of single Bi_{0.92}Sb_{0.08} nanowires. Physica Status Solidi - Rapid Research Letters, 2013, 7, 898-902.	1.2	4
261	Magneto-thermopower and magnetoresistance of single Co-Ni alloy nanowires. Applied Physics Letters, 2013, 103, .	1.5	68
262	Electrical transport in Câ€doped GaAs nanowires: surface effects. Physica Status Solidi - Rapid Research Letters, 2013, 7, 890-893.	1.2	15
263	A MEMS platform for the dielectrophoretic and thermoelectric characterization of Bi<inf>2</inf>Te<inf>3</inf> nanowires. , 2013, , .		2
264	Singleâ€<scp>S</scp>ource Precursorâ€<scp>B</scp>ased Deposition of Sb₂<scp>T</scp>e₃ Films by MOCVD^{**}. Chemical Vapor Deposition, 2013, 19, 235-241.	1.4	32
265	Surface state dominated transport in topological insulator Bi₂Te₃ nanowires. Applied Physics Letters, 2013, 103, 193107.	1.5	63
266	Thermal radiation transmission and reflection properties of ceramic 3D photonic crystals. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 450.	0.9	32
267	Insights into the electronic structure of Co<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>FeSi from x-ray magnetic linear dichroism. Physical Review B, 2012, 86, .	1.1	21
268	Greetings from the new Editor-in-Chief. Semiconductor Science and Technology, 2012, 27, 010301.	1.0	0
269	Enhanced magneto-thermoelectric power factor of a 70â€‰nm Ni-nanowire. Journal of Applied Physics, 2012, 111, .	1.1	32
270	Magneto-optical Properties of Coreâ€“Shell Magneto-plasmonic Auâ€“CoxFe3Ââ€“ÂxO4 Nanowires. Langmuir, 2012, 28, 9127-9130.	1.6	41

#	Article	IF	Citations
271	REMOVED: Effect of Ald Sio2 Surface Coverage of a Nanoporous Alumina Membrane on Electrical and Transport Parameters. Procedia Engineering, 2012, 44, 707-709.	1.2	0
272	Magnetization reversal in multisegmented nanowires: Parallel and serial reversal modes. Applied Physics Letters, 2012, 101, .	1.5	12
273	Magnetic characterization of nickel-rich NiFe nanowires grown by pulsed electrodeposition. Journal of Materials Chemistry, 2012, 22, 8549.	6.7	71
274	Stacking of Ceramic Inverse Opals with Different Lattice Constants. Journal of the American Ceramic Society, 2012, 95, 2226-2235.	1.9	24
275	Depth-profile analysis of thermoelectric layers on Si wafers by pulsed r.f. glow discharge time-of-flight mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2012, 76, 175-180.	1.5	16
276	Reversal modes and magnetostatic interactions in Fe₃O₄/ZrO₂/Fe₃O₄multilayer nanotubes. Nanotechnology, 2012, 23, 495718.	1.3	35
277	Tuning the magnetic anisotropy of Coâ€“Ni nanowires: comparison between single nanowires and nanowire arrays in hard-anodic aluminum oxide membranes. Nanotechnology, 2012, 23, 465709.	1.3	118
278	Optimization of Electrodeposited pâ€Doped Sb₂Te₃ Thermoelectric Films by Millisecond Potentiostatic Pulses. Advanced Energy Materials, 2012, 2, 345-352.	10.2	63
279	Single-Crystalline, Stoichiometric Bi2Te3 Nanowires for Transport in the Basal Plane. Journal of Electronic Materials, 2012, 41, 1509-1512.	1.0	9
280	Nanostructure, Excitations, and Thermoelectric Properties of Bi2Te3-Based Nanomaterials. Journal of Electronic Materials, 2012, 41, 1792-1798.	1.0	19
281	Stoichiometry Controlled, Singleâ€Crystalline Bi₂Te₃ Nanowires for Transport in the Basal Plane. Advanced Functional Materials, 2012, 22, 151-156.	7.8	47
282	Precision improvements by the use of principal component regression and pooled regression applied to main component determinations with ICP-OES for thermoelectric films. Journal of Analytical Atomic Spectrometry, 2011, 26, 2477.	1.6	12
283	Towards ceramic 3DOM-materials as novel high-temperature reflective coatings and filters for thermophotovoltaics. IOP Conference Series: Materials Science and Engineering, 2011, 18, 182004.	0.3	5
284	Synthesis and magnetic characterization of MnAs nanoparticles via nanoparticle conversion. Nanotechnology, 2011, 22, 055602.	1.3	11
285	Synthesis Approaches of Inorganic Nanotubes. , 2011, , 413-429.		0
286	Experimental evidence for an angular dependent transition of magnetization reversal modes in magnetic nanotubes. Journal of Applied Physics, 2011, 109, .	1.1	82
287	Magnetic reversal of cylindrical nickel nanowires with modulated diameters. Journal of Applied Physics, 2011, 109, .	1.1	60
288	Low loss EELS and EFTEM study of Bi2Te3 based bulk and nanomaterials. Materials Research Society Symposia Proceedings, 2011, 1329, 1.	0.1	6

#	Article	IF	Citations
289	Understanding Pore Rearrangement during Mild to Hard Transition in Bilayered Porous Anodic Alumina Membranes. ACS Applied Materials & Interfaces, 2011, 3, 1925-1932.	4.0	43
290	Surface modification and fabrication of 3D nanostructures by atomic layer deposition. MRS Bulletin, 2011, 36, 887-897.	1.7	59
291	Thermal conductivity measurements using 1Ï‰ and 3Ï‰ methods revisited for voltage-driven setups. Review of Scientific Instruments, 2011, 82, 074903.	0.6	22
292	Nickel nanoparticles in fullerene matrix fabricated by co-evaporation: structural, magnetic, and magneto-optical properties. Applied Physics A: Materials Science and Processing, 2011, 103, 433-438.	1.1	7
293	Structural and magnetic phenomena in ultrathin C/Co/C stacks prepared by DC magnetron sputtering. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1698-1703.	0.8	3
294	Ferromagnetism and Morphology of Annealed Fe₂O₃/Co_XO_Y/ZnO Thin Films. Advanced Engineering Materials, 2011, 13, 330-335.	1.6	1
295	Magnetic, Multilayered Nanotubes of Low Aspect Ratios for Liquid Suspensions. Advanced Functional Materials, 2011, 21, 226-232.	7.8	36
296	Thermoelectric Nanostructures: From Physical Model Systems towards Nanograined Composites. Advanced Energy Materials, 2011, 1, 713-731.	10.2	214
297	Stoichiometry of Nickel Oxide Films Prepared by ALD. Chemical Vapor Deposition, 2011, 17, 177-180.	1.4	45
298	Processing of hollow micro- and nanostructures using the hydrophilic nature of MgO. Precision Engineering, 2011, 35, 496-499.	1.8	5
299	Superparamagnetic behavior in cobalt iron oxide nanotube arrays by atomic layer deposition. Journal of Applied Physics, 2011, 110, .	1.1	18
300	Photoemission electron microscopy of three-dimensional magnetization configurations in core-shell nanostructures. Physical Review B, 2011, 84, .	1.1	52
301	Itinerant and localized magnetic moments in ferrimagnetic Mn<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>CoGa thin films probed by x-ray magnetic linear dichroism: Experiment andab initiotheory. Physical Review B, 2011, 84, .	1.1	56
302	(Invited) Tailor-Made, Magnetic Nanotubes by Template-Directed Atomic Layer Deposition. ECS Transactions, 2011, 41, 111-121.	0.3	6
303	Stability of magnetic nanoparticles inside ferromagnetic nanotubes. Applied Physics Letters, 2011, 98, .	1.5	10
304	Power factor measurements of bismuth telluride nanowires grown by pulsed electrodeposition. Physica Status Solidi - Rapid Research Letters, 2010, 4, 43-45.	1.2	22
305	Temperatureâ€Dependent Solidâ€State Reactions With and Without Kirkendall Effect in Al₂O₃/ZnO, Fe₂O₃/ZnO, and Co_XO_Y/ZnO Oxide Thin Film Systems. Advanced Engineering Materials, 2010, 12, 509-516.	1.6	12
306	Multilayered Core/Shell Nanowires Displaying Two Distinct Magnetic Switching Events. Advanced Materials, 2010, 22, 2435-2439.	11.1	111

#	Article	IF	Citations
307	A novel synthesis of ultrathin CoPt3 nanowires by dealloying larger diameter Co99Pt1 nanowires and subsequent stress-induced crack propagation. Electrochemistry Communications, 2010, 12, 835-838.	2.3	8
308	Electrochemical route to thermoelectric nanowires via organic electrolytes. Physica Status Solidi (B): Basic Research, 2010, 247, 1384-1392.	0.7	12
309	Tubular magnetic nanostructures based on glancing angle deposited templates and atomic layer deposition. Physica Status Solidi (B): Basic Research, 2010, 247, 1365-1371.	0.7	25
310	Preparation and magnetoviscosity of nanotube ferrofluids by viral scaffolding and ALD on porous templates. Physica Status Solidi (B): Basic Research, 2010, 247, 2412-2423.	0.7	19
311	Low temperature silicon dioxide by thermal atomic layer deposition: Investigation of material properties. Journal of Applied Physics, 2010, 107, .	1.1	86
312	Direct Atomic Layer Deposition of Ternary Ferrites with Various Magnetic Properties. Chemistry of Materials, 2010, 22, 6506-6508.	3.2	48
313	The Transition between Conformal Atomic Layer Epitaxy and Nanowire Growth. Journal of the American Chemical Society, 2010, 132, 7592-7594.	6.6	23
314	Multiple Nanowire Species Synthesized on a Single Chip by Selectively Addressable Horizontal Nanochannels. Nano Letters, 2010, 10, 1341-1346.	4.5	22
315	Disproportionation of thermoelectric bismuth telluride nanowires as a result of the annealing process. Physical Chemistry Chemical Physics, 2010, 12, 15247.	1.3	31
316	Atomic layer deposition of ZnS nanotubes. Nanotechnology, 2009, 20, 325602.	1.3	22
317	Size effects in ordered arrays of magnetic nanotubes: Pick your reversal mode. Journal of Applied Physics, 2009, 105, .	1.1	57
318	Wafer-scale arrays of epitaxial ferroelectric nanodiscs and nanorings. Nanotechnology, 2009, 20, 015301.	1.3	13
319	Pulsed Vaporâ€Liquidâ€Solid Growth of Antimony Selenide and Antimony Sulfide Nanowires. Advanced Materials, 2009, 21, 3170-3174.	11.1	50
320	A micronâ€sized nanoporous multifunction sensing device. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 435-441.	0.8	12
321	Domain wall propagation in Permalloy nanowires with a thickness gradient. Superlattices and Microstructures, 2009, 46, 728-731.	1.4	1
322	Magnetic cylindrical nanowires with single modulated diameter. Physical Review B, 2009, 80, .	1.1	31
323	Controlled Introduction of Diameter Modulations in Arrayed Magnetic Iron Oxide Nanotubes. ACS Nano, 2009, 3, 3463-3468.	7.3	104
324	A novel approach for fabrication of bismuth-silicon dioxide core-shell structures by atomic layer deposition. Journal of Materials Chemistry, 2009, 19, 7050.	6.7	23

#	Article	IF	Citations
325	Local modes and two magnon scattering in ordered permalloy antidot arrays. Journal of Applied Physics, 2009, 105, 07C113.	1.1	22
326	Atomic Layer Deposition of Antimony Oxide and Antimony Sulfide. Chemistry of Materials, 2009, 21, 2586-2588.	3.2	35
327	A Practical, Selfâ€Catalytic, Atomic Layer Deposition of Silicon Dioxide. Angewandte Chemie - International Edition, 2008, 47, 6177-6179.	7.2	127
328	Microstructure and temperature-dependent magnetic properties of Co/Pt multilayered nanowires. Chemical Physics Letters, 2008, 466, 165-169.	1.2	26
329	Microstructured horizontal alumina pore arrays as growth templates for large area few and single nanowire devices. Physica Status Solidi - Rapid Research Letters, 2008, 2, 59-61.	1.2	12
330	Self-Ordered Anodic Aluminum Oxide Formed by H₂SO₄ Hard Anodization. ACS Nano, 2008, 2, 302-310.	7.3	222
331	Crossover between two different magnetization reversal modes in arrays of iron oxide nanotubes. Physical Review B, 2008, 77, .	1.1	139
332	Patterning of magnetic structures on austenitic stainless steel by local ion beam nitriding. Acta Materialia, 2008, 56, 4570-4576.	3.8	17
333	Tuning the crystallinity of thermoelectric Bi₂Te₃nanowire arrays grown by pulsed electrodeposition. Nanotechnology, 2008, 19, 365701.	1.3	86
334	Manipulating feature sizes in Si-based grating structures by thermal oxidation. Nanotechnology, 2008, 19, 325305.	1.3	2
335	Magnetization dynamics in optically excited nanostructured nickel films. New Journal of Physics, 2008, 10, 123004.	1.2	12
336	Atomic Layer Deposition on Biological Macromolecules. ECS Transactions, 2007, 3, 219-225.	0.3	5
337	Magnetic properties of bi-phase micro- and nanotubes. Nanotechnology, 2007, 18, 225704.	1.3	14
338	Ferromagnetic nanotubes by atomic layer deposition in anodic alumina membranes. Journal of Applied Physics, 2007, 101, 09J111.	1.1	161
339	Ordered nanowires based on V–VI materials: From synthesis in organic electrolytes to electrical characterization. , 2007, , .		0
340	Influence of Surface Diffusion on the Formation of Hollow Nanostructures Induced by the Kirkendall Effect:Â The Basic Concept. Nano Letters, 2007, 7, 993-997.	4.5	363
341	Self-ordering behavior of nanoporous anodic aluminum oxide (AAO) in malonic acid anodization. Nanotechnology, 2007, 18, 475713.	1.3	120
342	Ferromagnetic Nanostructures by Atomic Layer Deposition: From Thin Films Towards Core-Shell Nanotubes. ECS Transactions, 2007, 11, 139-148.	0.3	21

#	Article	IF	Citations
343	Angular dependence of coercivity in magnetic nanotubes. Nanotechnology, 2007, 18, 445706.	1.3	75
344	Aligned Horizontal Silica Nanochannels by Oxidative Self-Sealing of Patterned Silicon Wafers. Chemistry of Materials, 2007, 19, 3-5.	3.2	22
345	Ordered Iron Oxide Nanotube Arrays of Controlled Geometry and Tunable Magnetism by Atomic Layer Deposition. Journal of the American Chemical Society, 2007, 129, 9554-9555.	6.6	232
346	Ordered Ni nanohole arrays with engineered geometrical aspects and magnetic anisotropy. Applied Physics Letters, 2007, 90, 192501.	1.5	58
347	Shallow HEMTs For Lateral Magnetic Superlattices. AIP Conference Proceedings, 2007, , .	0.3	0
348	Formation of Titania/Silica Hybrid Nanowires Containing Linear Mesocage Arrays by Evaporationâ€Induced Blockâ€Copolymer Selfâ€Assembly and Atomic Layer Deposition. Angewandte Chemie - International Edition, 2007, 46, 6829-6832.	7.2	26
349	Enhanced Magnetoâ€Optics and Size Effects in Ferromagnetic Nanowire Arrays. Advanced Materials, 2007, 19, 2643-2647.	11.1	86
350	Synthesis and Surface Engineering of Complex Nanostructures by Atomic Layer Deposition. Advanced Materials, 2007, 19, 3425-3438.	11.1	812
351	Laser-Interference Lithography Tailored for Highly Symmetrically Arranged ZnO Nanowire Arrays. Small, 2007, 3, 76-80.	5.2	95
352	Fabrication and magnetic properties of hexagonal arrays of NiFe elongated nanomagnets. Journal of Magnetism and Magnetic Materials, 2007, 316, e44-e47.	1.0	12
353	Atomic Layer Deposition on Biological Macromolecules:Â Metal Oxide Coating of Tobacco Mosaic Virus and Ferritin. Nano Letters, 2006, 6, 1172-1177.	4.5	200
354	A Nonaqueous Way to Thermoelectric Nanowires. , 2006, , .		0
355	Surface-enhanced Raman spectroscopy employing monodisperse nickel nanowire arrays. Applied Physics Letters, 2006, 88, 023106.	1.5	38
356	Template-Assisted Large-Scale Ordered Arrays of ZnO Pillars for Optical and Piezoelectric Applications. Small, 2006, 2, 561-568.	5.2	209
357	Wafer-Scale Ni Imprint Stamps for Porous Alumina Membranes Based on Interference Lithography. Small, 2006, 2, 978-982.	5.2	134
358	Monocrystalline spinel nanotube fabrication based on the Kirkendall effect. Nature Materials, 2006, 5, 627-631.	13.3	699
359	Fast fabrication of long-range ordered porous alumina membranes by hard anodization. Nature Materials, 2006, 5, 741-747.	13.3	1,254
360	Enhancement of weak anti-localization signatures in the magneto-resistance of bismuth anti-dot thin films. Applied Physics A: Materials Science and Processing, 2006, 82, 471-474.	1.1	10

#	Article	IF	Citations
361	Vertical nanopatterning of 6H-SiC(0001) surfaces using gold-metal nanotube membrane lithography. Applied Physics A: Materials Science and Processing, 2006, 83, 361-363.	1.1	10
362	Etching nano-holes in silicon carbide using catalytic platinum nano-particles. Applied Physics A: Materials Science and Processing, 2006, 84, 369-371.	1.1	10
363	Templated Fabrication of Nanowire and Nanoring Arrays Based on Interference Lithography and Electrochemical Deposition. Advanced Materials, 2006, 18, 2593-2596.	11.1	75
364	Metal nanotube membranes and their lithographic applications. , 2006, , .		0
365	Additive patterning of ion-beam-sputtered non-conformal Ni80Fe20and Co70Fe30magnetic films. Nanotechnology, 2006, 17, 2040-2045.	1.3	8
366	Spin waves in permalloy nanowires: The importance of easy-plane anisotropy. Physical Review B, 2006, 73, .	1.1	26
367	Single-crystalline MgAl2O4spinel nanotubes using a reactive and removable MgO nanowire template. Nanotechnology, 2006, 17, 5157-5162.	1.3	69
368	Magnetic behavior of NixFe(100â^'x) (65â©½xâ©½100) nanowire arrays. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 191-194.	1.0	20
369	A Template-Based Electrochemical Method for the Synthesis of Multisegmented Metallic Nanotubes. Angewandte Chemie - International Edition, 2005, 44, 6050-6054.	7.2	258
370	Synthesis of Cobalt/Polymer Multilayer Nanotubes. Advanced Engineering Materials, 2005, 7, 217-221.	1.6	101
371	Surface enhanced Raman spectroscopy on monodisperse silver and nickel nanowires. , 2005, , .		0
372	Magnetic-field dependence of spin waves in ordered permalloy nanowire arrays in two dimensions. Journal of Applied Physics, 2005, 98, 046103.	1.1	12
373	Magnetic properties of template-synthesized cobaltâ^•polymer composite nanotubes. Journal of Applied Physics, 2005, 98, 034318.	1.1	101
374	Well-ordered large-area arrays of epitaxial ferroelectric (Bi,La)4Ti3O12 nanostructures fabricated by gold nanotube-membrane lithography. Applied Physics Letters, 2005, 86, 152906.	1.5	32
375	Growth and characterization of epitaxial ferroelectric lanthanum-substituted bismuth titanate nanostructures with three different orientations. Journal of Applied Physics, 2005, 98, 124302.	1.1	9
376	High-Density Nickel Nanowire Arrays. , 2005, , 165-184.		1
377	Metal Membranes with Hierarchically Organized Nanotube Arrays. Chemistry of Materials, 2005, 17, 3325-3327.	3.2	74
378	In situ surface-enhanced Raman spectroscopy of monodisperse silver nanowire arrays. Journal of Applied Physics, 2005, 97, 024308.	1.1	42

#	Article	IF	Citations
379	Arrays of vertically aligned and hexagonally arranged ZnO nanowires: a new template-directed approach. Nanotechnology, 2005, 16, 913-917.	1.3	147
380	Anisotropy and magnetotransport in ordered magnetic antidot arrays. Applied Physics Letters, 2004, 85, 2872-2874.	1.5	66
381	Hexagonal-arranged ZnO Nanowire Arrays by Using Au Nanohole Membranes as Fabrication Template. Materials Research Society Symposia Proceedings, 2004, 849, 154.	0.1	0
382	FMR characterization of hexagonal arrays of Ni nanowires. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1652-1653.	1.0	32
383	Modelling hysteresis of interacting nanowires arrays. Physica B: Condensed Matter, 2004, 343, 395-402.	1.3	98
384	Patterned growth of aligned ZnO nanowire arrays on sapphire and GaN layers. Superlattices and Microstructures, 2004, 36, 95-105.	1.4	70
385	Study of the magnetic hysteresis in arrays of ferromagnetic Fe nanowires as a function of the template filling fraction. Journal of Magnetism and Magnetic Materials, 2004, 272-276, 1656-1657.	1.0	39
386	Novel magnetic materials prepared by electrodeposition techniques: arrays of nanowires and multi-layered microwires. Journal of Alloys and Compounds, 2004, 369, 18-26.	2.8	84
387	Hexagonally Arranged Monodisperse Silver Nanowires with Adjustable Diameter and High Aspect Ratio. Chemistry of Materials, 2003, 15, 776-779.	3.2	239
388	Magneto-optical properties of nickel nanowire arrays. Applied Physics Letters, 2003, 83, 4547-4549.	1.5	88
389	Monodisperse metal nanowire arrays on Si by integration of template synthesis with silicon technology. Journal of Materials Chemistry, 2003, 13, 1100-1103.	6.7	52
390	Fabrication of monodomain alumina pore arrays with an interpore distance smaller than the lattice constant of the imprint stamp. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 763.	1.6	126
391	Large-area porous alumina photonic crystals via imprint method. Materials Research Society Symposia Proceedings, 2002, 722, 521.	0.1	29
392	Spin-Wave Quantization in Ferromagnetic Nickel Nanowires. Physical Review Letters, 2002, 89, 027201.	2.9	161
393	Switching behavior of single nanowires inside dense nickel nanowire arrays. IEEE Transactions on Magnetics, 2002, 38, 2571-2573.	1.2	73
394	Polymer Nanotubes by Wetting of Ordered Porous Templates. Science, 2002, 296, 1997-1997.	6.0	818
395	Highly ordered monocrystalline silver nanowire arrays. Journal of Applied Physics, 2002, 91, 3243-3247.	1.1	372
396	Magnetization reversal in granular nanowires. IEEE Transactions on Magnetics, 2002, 38, 2580-2582.	1.2	22

#	Article	IF	Citations
397	Monodisperse Diameter-Modulated Gold Microwires. Advanced Materials, 2002, 14, 1618-1621.	11.1	64
398	High aspect ratio microstructures based on anisotropic porous materials. Microsystem Technologies, 2002, 8, 7-9.	1.2	18
399	High density hexagonal nickel nanowire array. Journal of Magnetism and Magnetic Materials, 2002, 249, 234-240.	1.0	139
400	Self-ordering Regimes of Porous Alumina:â€‰ The 10 Porosity Rule. Nano Letters, 2002, 2, 677-680.	4.5	933
401	Hexagonally ordered 100 nm period nickel nanowire arrays. Applied Physics Letters, 2001, 79, 1360-1362.	1.5	528
402	High Density Hexagonal Nickel Nanowire Arrays with 65 and 100 nm-PERIOD. Materials Research Society Symposia Proceedings, 2001, 705, 931.	0.1	3
403	Magnetic Properties of 100 NM-Period Nickel Nanowire Arrays Obtained from Ordered Porous-Alumina Templates. Materials Research Society Symposia Proceedings, 2000, 636, 191.	0.1	14
404	Uniform Nickel Deposition into Ordered Alumina Pores by Pulsed Electrodeposition. Advanced Materials, 2000, 12, 582-586.	11.1	787
405	Uniform Nickel Deposition into Ordered Alumina Pores by Pulsed Electrodeposition. , 2000, 12, 582.		5
406	Uniform Nickel Deposition into Ordered Alumina Pores by Pulsed Electrodeposition. , 2000, 12, 582.		71
407	Polycrystalline nanopore arrays with hexagonal ordering on aluminum. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 1428-1431.	0.9	124
408	Fabrication and Microstructuring of Hexagonally Ordered Two-Dimensional Nanopore Arrays in Anodic Alumina. Advanced Materials, 1999, 11, 483-487.	11.1	264
409	Fabrication and Microstructuring of Hexagonally Ordered Two-Dimensional Nanopore Arrays in Anodic Alumina. , 1999, 11, 483.		2
410	Fabrication and Microstructuring of Hexagonally Ordered Two-Dimensional Nanopore Arrays in Anodic Alumina. Advanced Materials, 1999, 11, 483-487.	11.1	11
411	Hexagonal pore arrays with a 50â€“420 nm interpore distance formed by self-organization in anodic alumina. Journal of Applied Physics, 1998, 84, 6023-6026.	1.1	1,428
412	Monodisperse aerosol particle deposition: Prospects for nanoelectronics. Microelectronic Engineering, 1998, 41-42, 535-538.	1.1	39
413	Feasibility study of nanoparticle synthesis from powders of compounds with incongruent sublimation behavior by the evaporation/ condensation method. Scripta Materialia, 1998, 10, 565-573.	0.5	7
414	Preparation of size-classified PbS nanoparticles in the gas phase. Applied Physics Letters, 1998, 73, 547-549.	1.5	54

#	Article	IF	Citations
415	Formation of ultrafine particles from powders of compounds with incongruent sublimation behavior. Journal of Aerosol Science, 1997, 28, S495-S496.	1.8	1
416	Synthesis of nano-sized lead sulfide particles. Journal of Aerosol Science, 1997, 28, S755-S756.	1.8	4
417	Switching behaviour of single nanowires inside dense nickel nanowire arrays. , 0, , .		1
418	Nickel nanowire arrays based on imprint lithography. , 0, , .		0
419	Density-Functional Theory Study of Point Defects in Bi₂Te₃. , 0, , 165-186.		0
420	Structure and Transport Properties of Bi₂Te₃Films. , 0, , 73-98.		1
421	Bulk-Nanostructured Bi₂Te₃-Based Materials: Processing, Thermoelectric Properties, and Challenges. , 0, , 99-117.		1
422	High Energy X-ray and Neutron Scattering on Bi₂Te₃Nanowires, Nanocomposites, and Bulk Materials. , 0, , 119-139.		0
423	Origin and avoidance of double peaks in the induced voltage of a thermomagnetic generator for harvesting low-grade waste heat. JPhys Energy, 0, , .	2.3	0