

Kornelius Nielsch

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

403
papers

18,466
citations

62
h-index

126
g-index

439
ext. papers

20,196
ext. citations

6.6
avg, IF

6.61
L-index

#	Paper	IF	Citations
403	Electrocaloric temperature changes in epitaxial Ba _{1-x} Sr _x TiO ₃ films. <i>Journal of Alloys and Compounds</i> , 2022 , 891, 162041	5.7	1
402	Mobility-enhanced thermoelectric performance in textured nanograin Bi ₂ Se ₃ , effect on scattering and surface-like transport. <i>Materials Today Physics</i> , 2022 , 24, 100669	8	1
401	Study of the Annealing Effects of Sputtered Bi ₂ Te ₃ Thin Films with Full Thermoelectric Figure of Merit Characterization. <i>Physica Status Solidi - Rapid Research Letters</i> , 2022 , 16, 2100533	2.5	0
400	Core-Shell GaAs-Fe Nanowire Arrays: Fabrication Using Electrochemical Etching and Deposition and Study of Their Magnetic Properties.. <i>Nanomaterials</i> , 2022 , 12,	5.4	2
399	Geometrical Optimization and Thermal-Stability Characterization of Te-Free Thermoelectric Modules Based on MgAgSb/Mg (Bi,Sb).. <i>Small</i> , 2022 , e2201183	11	3
398	Estimating thin-film thermal conductivity by optical pump thermoreflectance imaging and finite element analysis. <i>Journal of Applied Physics</i> , 2022 , 131, 185111	2.5	
397	Dependency of hysteretic loss on speed and tilt in a rotating superconducting magnetic bearing. <i>Superconductor Science and Technology</i> , 2021 , 34, 125004	3.1	
396	Current State-of-the-Art in the Interface/Surface Modification of Thermoelectric Materials (Adv. Energy Mater. 37/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170144	21.8	
395	Advances in magneto-ionic materials and perspectives for their application. <i>APL Materials</i> , 2021 , 9, 030903	9.7	17
394	Structural and Electric Properties of Epitaxial Na _{0.5} Bi _{0.5} TiO ₃ -Based Thin Films. <i>Coatings</i> , 2021 , 11, 651	2.9	1
393	Magnetoionic control of perpendicular exchange bias. <i>Physical Review Materials</i> , 2021 , 5,	3.2	10
392	Transparent Power-Generating Windows Based on Solar-Thermal-Electric Conversion. <i>Advanced Energy Materials</i> , 2021 , 11, 2101213	21.8	3
391	Nonreciprocity of spin waves in magnetic nanotubes with helical equilibrium magnetization. <i>Applied Physics Letters</i> , 2021 , 118, 262411	3.4	3
390	High-Pressure-Sintering-Induced Microstructural Engineering for an Ultimate Phonon Scattering of Thermoelectric Half-Heusler Compounds. <i>Small</i> , 2021 , 17, e2102045	11	3
389	Building Hierarchical Martensite. <i>Advanced Functional Materials</i> , 2021 , 31, 2005715	15.6	10
388	Heterostructured Bismuth Telluride Selenide Nanosheets for Enhanced Thermoelectric Performance. <i>Small Science</i> , 2021 , 1, 2000021		11
387	Influence of Nanoparticle Processing on the Thermoelectric Properties of (Bi Sb) Te Ternary Alloys. <i>ChemistryOpen</i> , 2021 , 10, 189-198	2.3	2

386	Robust magneto-ionic effect in Fe/FeOx thin films in electrolytes with different cations. <i>IEEE Transactions on Magnetics</i> , 2021 , 1-1	2	1
385	Oxygen-Doped Carbon Nitride Tubes for Highly Stable LithiumSulfur Batteries. <i>Energy Technology</i> , 2021 , 9, 2001057	3.5	4
384	Phase Selection in MnBi Alloys by Fast Solid-State Reaction with Enhanced Skyrmion Stability. <i>Advanced Functional Materials</i> , 2021 , 31, 2009723	15.6	2
383	Hierarchical Martensite: Building Hierarchical Martensite (Adv. Funct. Mater. 7/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170046	15.6	
382	Towards tellurium-free thermoelectric modules for power generation from low-grade heat. <i>Nature Communications</i> , 2021 , 12, 1121	17.4	36
381	Dynamic Characteristics of a Superconducting Magnetic Bearing Under In Displacements. <i>IEEE Transactions on Applied Superconductivity</i> , 2021 , 31, 1-5	1.8	1
380	Reduced Lattice Thermal Conductivity for Half-Heusler ZrNiSn through Cryogenic Mechanical Alloying. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 38561-38568	9.5	11
379	Can gadolinium compete with La-Fe-Co-Si in a thermomagnetic generator?. <i>Science and Technology of Advanced Materials</i> , 2021 , 22, 643-657	7.1	3
378	Current State-of-the-Art in the Interface/Surface Modification of Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2021 , 11, 2101877	21.8	11
377	B20-MnSi films grown on Si(100) substrates with magnetic skyrmion signature. <i>Materials Today Physics</i> , 2021 , 100541	8	
376	High-Performance n-Type Ge-Free Silicon Thermoelectric Material from Silicon Waste. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 47912-47920	9.5	2
375	Self-Patterning of Multifunctional Heusler Membranes by Dewetting. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100966	4.6	0
374	Interface-Dominated Topological Transport in Nanograined Bulk Bi Te. <i>Small</i> , 2021 , 17, e2103281	11	2
373	Efficient and affordable thermomagnetic materials for harvesting low grade waste heat. <i>APL Materials</i> , 2021 , 9, 011105	5.7	10
372	Superconductivity with broken time-reversal symmetry inside a superconducting s-wave state. <i>Nature Physics</i> , 2020 , 16, 789-794	16.2	20
371	Increasing the Diversity and Understanding of Semiconductor Nanoplatelets by Colloidal Atomic Layer Deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 2000282	2.5	2
370	Rapid thermal annealing of Sb2Te3 thin films grown via atomic layer deposition. <i>Thin Solid Films</i> , 2020 , 700, 137922	2.2	
369	Waste Recycling in Thermoelectric Materials. <i>Advanced Energy Materials</i> , 2020 , 10, 1904159	21.8	37

368	Electrochemical nanostructuring of (111) oriented GaAs crystals: from porous structures to nanowires. <i>Beilstein Journal of Nanotechnology</i> , 2020 , 11, 966-975	3	5
367	Thermoelectric Characterization Platform for Electrochemically Deposited Materials. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901288	6.4	3
366	Thickness dependence of the anomalous Nernst effect and the Mott relation of Weyl semimetal Co ₂ MnGa thin films. <i>Physical Review B</i> , 2020 , 101,	3.3	16
365	Breakdown of Varvenne scaling in (AuNiPdPt) _{1-x} Cu high-entropy alloys. <i>Scripta Materialia</i> , 2020 , 181, 15-18	5.6	6
364	Ionic Liquid-Based Low-Temperature Synthesis of Phase-Pure Tetradymite-Type Materials and Their Thermoelectric Properties. <i>Inorganic Chemistry</i> , 2020 , 59, 3428-3436	5.1	9
363	Doping High-Mobility Donor/Acceptor Copolymer Semiconductors with an Organic Salt for High-Performance Thermoelectric Materials. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900945	6.4	22
362	Analysis of the high-speed rotary motion of a superconducting magnetic bearing during ring spinning. <i>Engineering Research Express</i> , 2020 , 2, 035039	0.9	2
361	Electrical and Photoelectrical Properties of Zn _{1-x} Mg _x O Thin Films Obtained by Spin Coating and Aerosol Deposition Method. <i>IFMBE Proceedings</i> , 2020 , 105-109	0.2	1
360	Wettability control of polymeric microstructures replicated from laser-patterned stamps. <i>Scientific Reports</i> , 2020 , 10, 22428	4.9	5
359	Origins of strength and plasticity in the precious metal based high-entropy alloy AuCuNiPdPt. <i>Acta Materialia</i> , 2020 , 185, 400-411	8.4	12
358	Signatures of a Charge Density Wave Phase and the Chiral Anomaly in the Fermionic Material Cobalt Monosilicide CoSi. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900857	6.4	3
357	Signatures of the Magnetic Entropy in the Thermopower Signals in Nanoribbons of the Magnetic Weyl Semimetal CoSnS. <i>Nano Letters</i> , 2020 , 20, 300-305	11.5	7
356	Voltage-controlled ON switching and manipulation of magnetization via the redox transformation of FeOOH nanoplatelets. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 084001	3	8
355	Unveiling the phonon scattering mechanisms in half-Heusler thermoelectric compounds. <i>Energy and Environmental Science</i> , 2020 , 13, 5165-5176	35.4	16
354	Control of Positive and Negative Magnetoresistance in Iron Oxide/Iron Nanocomposite Thin Films for Tunable Magnetoelectric Nanodevices. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 2543-2549	4	11
353	Voltage-Controlled Deblocking of Magnetization Reversal in Thin Films by Tunable Domain Wall Interactions and Pinning Sites. <i>Advanced Electronic Materials</i> , 2020 , 6, 2000406	6.4	11
352	Fast Fourier transform and multi-Gaussian fitting of XRR data to determine the thickness of ALD grown thin films within the initial growth regime. <i>Applied Physics Letters</i> , 2020 , 117, 213106	3.4	0
351	Influence of the magnet aspect ratio on the dynamic stiffness of a rotating superconducting magnetic bearing. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 035002	3	9

350	Electrochemical Deposition by Design of Metal Nanostructures. <i>Surface Engineering and Applied Electrochemistry</i> , 2019 , 55, 367-372	0.8	5
349	Thermoelectric properties of Au and Ti nanofilms, characterized with a novel measurement platform. <i>Materials Today: Proceedings</i> , 2019 , 8, 517-522	1.4	2
348	Towards Uniform Electrochemical Porosification of Bulk HVPE-Grown GaN. <i>Journal of the Electrochemical Society</i> , 2019 , 166, H3159-H3166	3.9	4
347	Transition to the quantum hall regime in InAs nanowire cross-junctions. <i>Semiconductor Science and Technology</i> , 2019 , 34, 035028	1.8	4
346	Nonvolatile Electric Control of Exchange Bias by a Redox Transformation of the Ferromagnetic Layer. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900296	6.4	21
345	Magnetoresistance and anomalous Hall effect in micro-ribbons of the magnetic Weyl semimetal Co ₃ Sn ₂ S ₂ . <i>Applied Physics Letters</i> , 2019 , 114, 092403	3.4	10
344	Preparation and nanoscale characterization of electrodeposited CoFe-Cu multilayer nanowires. <i>Materials Chemistry and Physics</i> , 2019 , 230, 231-238	4.4	5
343	Chemical Aspects of the Candidate Antiferromagnetic Topological Insulator MnBi ₂ Te ₄ . <i>Chemistry of Materials</i> , 2019 , 31, 2795-2806	9.6	114
342	Atomic Layer Deposition: 2D Transition Metal Dichalcogenide Thin Films Obtained by Chemical Gas Phase Deposition Techniques (Adv. Mater. Interfaces 3/2019). <i>Advanced Materials Interfaces</i> , 2019 , 6, 1970024	4.6	0
341	Electronic entropy change in Ni-doped FeRh. <i>Materials Today Physics</i> , 2019 , 9, 100129	8	5
340	Magneto-thermoelectric characterization of a HfTe ₅ micro-ribbon. <i>Applied Physics Letters</i> , 2019 , 115, 072109	3.4	4
339	Focused ion beam modification of non-local magnon-based transport in yttrium iron garnet/platinum heterostructures. <i>Applied Physics Letters</i> , 2019 , 114, 252401	3.4	5
338	Spin Hall magnetoresistance in heterostructures consisting of noncrystalline paramagnetic YIG and Pt. <i>Applied Physics Letters</i> , 2019 , 114, 252402	3.4	7
337	Energy harvesting near room temperature using a thermomagnetic generator with a pretzel-like magnetic flux topology. <i>Nature Energy</i> , 2019 , 4, 68-74	62.3	37
336	Thermoelectric properties of silicon and recycled silicon sawing waste. <i>Journal of Materiomics</i> , 2019 , 5, 15-33	6.7	15
335	Discovery of TaFeSb-based half-Heuslers with high thermoelectric performance. <i>Nature Communications</i> , 2019 , 10, 270	17.4	155
334	Design Guidelines for Micro-Thermoelectric Devices by Finite Element Analysis. <i>Advanced Sustainable Systems</i> , 2019 , 3, 1800093	5.9	3
333	2D Transition Metal Dichalcogenide Thin Films Obtained by Chemical Gas Phase Deposition Techniques. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1800688	4.6	13

332	Electrical Detection and Magnetic Imaging of Stabilized Magnetic Skyrmions in Fe _{1-x} CoxGe (x Advanced Functional Materials, 2019 , 29, 1805418	15.6	16
331	Influence of artificial pinning centers on structural and superconducting properties of thick YBCO films on ABAD-YSZ templates. <i>Superconductor Science and Technology</i> , 2018 , 31, 044007	3.1	13
330	Simulation of Force Generation Above Magnetic Tracks for Superconducting Levitation Systems. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	5
329	Understanding the Growth Mechanisms of Multilayered Systems in Atomic Layer Deposition Process. <i>Chemistry of Materials</i> , 2018 , 30, 1971-1979	9.6	10
328	Quantum materials for thermoelectricity. <i>MRS Bulletin</i> , 2018 , 43, 187-192	3.2	32
327	Thick Secondary Phase Pinning-Enhanced YBCO Films on Technical Templates. <i>IEEE Transactions on Applied Superconductivity</i> , 2018 , 28, 1-5	1.8	6
326	BaZrxTi1-xO3 Epitaxial Thin Films for Electrocaloric Investigations. <i>Energy Technology</i> , 2018 , 6, 1526-1534	3.5	4
325	Reducing Hysteresis Losses by Heating Minor Loops in Magnetocaloric NiMnGaCo Films. <i>Energy Technology</i> , 2018 , 6, 1463-1469	3.5	9
324	Air-Oxidation of Nb Nano-Films. <i>Semiconductors</i> , 2018 , 52, 678-682	0.7	2
323	Evolution of the spin hall magnetoresistance in Cr2O3/Pt bilayers close to the Néel temperature. <i>Applied Physics Letters</i> , 2018 , 112, 132401	3.4	35
322	Complete Thermoelectric Characterization of PEDOT:PSS Thin Films with a Novel ZT Test Chip Platform. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1700930	1.6	12
321	Advanced platform for the in-plane ZT measurement of thin films. <i>Review of Scientific Instruments</i> , 2018 , 89, 015110	1.7	37
320	Thermoelectric Devices: A Review of Devices, Architectures, and Contact Optimization. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700256	6.8	151
319	Surface Modification of III-V Semiconductors Using Exchange Reactions within ALD Half-Cycles. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701155	4.6	1
318	Role of Hydrogen Evolution during Epitaxial Electrodeposition of Fe on GaAs. <i>Journal of the Electrochemical Society</i> , 2018 , 165, H3076-H3079	3.9	8
317	Ultrahigh Power Factor in Thermoelectric System NbMFeSb (M = Hf, Zr, and Ti). <i>Advanced Science</i> , 2018 , 5, 1800278	13.6	31
316	Modulations in martensitic Heusler alloys originate from nanotwin ordering. <i>Scientific Reports</i> , 2018 , 8, 8489	4.9	30
315	All-electrochemical voltage-control of magnetization in metal oxide/metal nanoislands. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 8411-8417	7.1	27

314	Frequency linewidth and decay length of spin waves in curved magnetic membranes. <i>Physical Review B</i> , 2018 , 98,	3.3	7
313	Universum im Kristall. <i>Physik in Unserer Zeit</i> , 2018 , 49, 168-175	0.1	1
312	Thickness and temperature dependent thermoelectric properties of Bi ₈₇ Sb ₁₃ nanofilms measured with a novel measurement platform. <i>Semiconductor Science and Technology</i> , 2018 , 33, 085014	1.8	14
311	Two-Step Magnetization Reversal FORC Fingerprint of Coupled Bi-Segmented Ni/Co Magnetic Nanowire Arrays. <i>Nanomaterials</i> , 2018 , 8,	5.4	13
310	In-Situ Observation of the Reversible Electrochemical Deposition of Fe in a Transmission Electron Microscope. <i>Microscopy and Microanalysis</i> , 2018 , 24, 310-311	0.5	
309	Towards Induction Mapping of the 3D Spin Texture of Skyrmions. <i>Microscopy and Microanalysis</i> , 2018 , 24, 930-931	0.5	0
308	Spin-hall-active platinum thin films grown via atomic layer deposition. <i>Applied Physics Letters</i> , 2018 , 112, 242403	3.4	6
307	Discovery of ZrCoBi based half Heuslers with high thermoelectric conversion efficiency. <i>Nature Communications</i> , 2018 , 9, 2497	17.4	154
306	Analytical Investigation of the Limits for the In-Plane Thermal Conductivity Measurement Using a Suspended Membrane Setup. <i>Journal of Electronic Materials</i> , 2018 , 47, 3203-3209	1.9	8
305	Composition and diameter modulation of magnetic nanowire arrays fabricated by a novel approach. <i>Nanotechnology</i> , 2018 , 29, 065602	3.4	22
304	Reducing Thermal Hysteresis in Epitaxial NiMnGaCo Films by Transformation Cycling. <i>Physica Status Solidi (B): Basic Research</i> , 2018 , 255, 1700330	1.3	9
303	The Role of Spatial Coherence for the Creation of Atom Size Electron Vortex Beams. <i>Microscopy and Microanalysis</i> , 2018 , 24, 920-921	0.5	0
302	Large anomalous Nernst effect in thin films of the Weyl semimetal Co ₂ MnGa. <i>Applied Physics Letters</i> , 2018 , 113, 212405	3.4	51
301	Integrated microthermoelectric coolers with rapid response time and high device reliability. <i>Nature Electronics</i> , 2018 , 1, 555-561	28.4	41
300	Levitation force measurement on a switchable track for superconducting levitation systems. <i>Semiconductor Science and Technology</i> , 2018 , 31, 125007	3.1	3
299	Universal scaling behavior of the upper critical field in strained FeSe _{0.7} Te _{0.3} thin films. <i>New Journal of Physics</i> , 2018 , 20, 093012	2.9	3
298	Induction Mapping of the 3D-Modulated Spin Texture of Skyrmions in Thin Helimagnets. <i>Physical Review Letters</i> , 2018 , 120, 217201	7.4	19
297	Probing the Martensitic Microstructure of Magnetocaloric Heusler Films by Synchrotron Diffraction. <i>Energy Technology</i> , 2018 , 6, 1453-1462	3.5	2

296	Intra-wire coupling in segmented Ni/Cu nanowires deposited by electrodeposition. <i>Nanotechnology</i> , 2017 , 28, 065709	3.4	19
295	Influence of Substrate Tilt Angle on the Incorporation of BaHfO ₃ in Thick YBa ₂ Cu ₃ O _{7-x} Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2017 , 27, 1-4	1.8	6
294	Design and Validation of Switchable Tracks for Superconducting Levitation Systems. <i>IEEE Transactions on Applied Superconductivity</i> , 2017 , 27, 1-5	1.8	6
293	Influence of surface states and size effects on the Seebeck coefficient and electrical resistance of BiSb nanowire arrays. <i>Nanoscale</i> , 2017 , 9, 3169-3179	7.7	9
292	Towards Independent Behavior of Magnetic Slabs. <i>IEEE Magnetics Letters</i> , 2017 , 8, 1-5	1.6	1
291	Gold Electroplating as a Tool for Assessing the Conductivity of InP Nanostructures Fabricated by Anodic Etching of Crystalline Substrates. <i>Journal of the Electrochemical Society</i> , 2017 , 164, D179-D183	3.9	7
290	Superconducting properties of Ba(Fe _{1-x} Ni _x) ₂ As ₂ thin films in high magnetic fields. <i>Applied Physics Letters</i> , 2017 , 110, 022601	3.4	15
289	Symmetry breaking of the surface mediated quantum Hall Effect in Bi ₂ Se ₃ nanoplates using Fe ₃ O ₄ substrates. <i>2D Materials</i> , 2017 , 4, 015044	5.9	10
288	Aligned cuboid iron nanoparticles by epitaxial electrodeposition. <i>Nanoscale</i> , 2017 , 9, 5315-5322	7.7	6
287	Nucleation and growth of hierarchical martensite in epitaxial shape memory films. <i>Acta Materialia</i> , 2017 , 132, 327-334	8.4	28
286	Comments on "Evidence of the hydrogen release mechanism in bulk MgH ₂ ". <i>Scientific Reports</i> , 2017 , 7, 44216	4.9	9
285	Effect of substrate miscut on the microstructure in epitaxial Pb(Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ thin films. <i>Materials Characterization</i> , 2017 , 129, 234-241	3.9	5
284	Highly porous γ -Al ₂ O ₃ ceramics obtained by sintering atomic layer deposited inverse opals. <i>Ceramics International</i> , 2017 , 43, 11260-11264	5.1	25
283	The effect of the microstructure on the antiferromagnetic to ferromagnetic transition in FeRh alloys. <i>Acta Materialia</i> , 2017 , 131, 31-38	8.4	25
282	Fabrication and Modeling of Integrated Micro-Thermoelectric Cooler by Template-Assisted Electrochemical Deposition. <i>ECS Journal of Solid State Science and Technology</i> , 2017 , 6, N3022-N3028	2	12
281	Superconductivity in Ni-Doped BaBeAs Thin Films Prepared From Single-Crystal Targets Using PLD. <i>IEEE Transactions on Applied Superconductivity</i> , 2017 , 27, 1-4	1.8	8
280	Tailoring Microstructure and Superconducting Properties in Thick BaHfO ₃ and Ba ₂ Y(Nb/Ta)O ₆ Doped YBCO Films on Technical Templates. <i>IEEE Transactions on Applied Superconductivity</i> , 2017 , 27, 1-7	1.8	10
279	Ternary, single-crystalline Bi ₂ (Te, Se) ₃ nanowires grown by electrodeposition. <i>Acta Materialia</i> , 2017 , 125, 238-245	8.4	11

278	Low-Temperature Mullite Formation in Ternary Oxide Coatings Deposited by ALD for High-Temperature Applications. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700912	4.6	9
277	Electronic structure and magnetism of epitaxial NiMnGa(-Co) thin films with partial disorder: a view across the phase transition. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 465005	3	7
276	Temperature gradient-induced magnetization reversal of single ferromagnetic nanowires. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 494007	3	5
275	The influence of the in-plane lattice constant on the superconducting transition temperature of FeSe _{0.7} Te _{0.3} thin films. <i>AIP Advances</i> , 2017 , 7, 065015	1.5	8
274	Experimental signatures of the mixed axial-gravitational anomaly in the Weyl semimetal NbP. <i>Nature</i> , 2017 , 547, 324-327	50.4	161
273	Improved thermoelectric performance of n-type half-Heusler MCo _{1-x} Ni _x Sb (M = Hf, Zr). <i>Materials Today Physics</i> , 2017 , 1, 24-30	8	110
272	Atom size electron vortex beams with selectable orbital angular momentum. <i>Scientific Reports</i> , 2017 , 7, 934	4.9	22
271	Chiral magnetoresistance in the Weyl semimetal NbP. <i>Scientific Reports</i> , 2017 , 7, 43394	4.9	55
270	Photonic Materials: Low-Temperature Mullite Formation in Ternary Oxide Coatings Deposited by ALD for High-Temperature Applications (Adv. Mater. Interfaces 23/2017). <i>Advanced Materials Interfaces</i> , 2017 , 4, 1770122	4.6	1
269	Reversible tuning of magnetocaloric Ni-Mn-Ga-Co films on ferroelectric PMN-PT substrates. <i>Scientific Reports</i> , 2017 , 7, 14462	4.9	7
268	Strain-induced Dirac state shift in topological insulator Bi ₂ Se ₃ nanowires. <i>Applied Physics Letters</i> , 2017 , 111, 171601	3.4	12
267	Crossover between axial and radial magnetic anisotropy in self-organized permalloy nanowires. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2017 , 223, 120-124	3.1	8
266	Phase Imaging: A Compressive Sensing Approach. <i>Microscopy and Microanalysis</i> , 2017 , 23, 94-95	0.5	0
265	Digital Super-Resolution in EELS. <i>Microscopy and Microanalysis</i> , 2017 , 23, 146-147	0.5	
264	Deposition and properties of Fe(Se,Te) thin films on vicinal CaF ₂ substrates. <i>Superconductor Science and Technology</i> , 2017 , 30, 115008	3.1	7
263	Face Centred Cubic Multi-Component Equiatomic Solid Solutions in the Au-Cu-Ni-Pd-Pt System. <i>Metals</i> , 2017 , 7, 135	2.3	15
262	Monolithically Integrated Microelectromechanical Systems for On-Chip Strain Engineering of Quantum Dots. <i>Nano Letters</i> , 2016 , 16, 5785-91	11.5	20
261	Magnetic and electrical characterization of nickel-rich NiFe thin films synthesized by atomic layer deposition and subsequent thermal reduction. <i>Nanotechnology</i> , 2016 , 27, 345707	3.4	18

260	Berry phase and band structure analysis of the Weyl semimetal NbP. <i>Scientific Reports</i> , 2016 , 6, 33859	4.9	29
259	The surface-to-volume ratio: a key parameter in the thermoelectric transport of topological insulator Bi ₂ Se ₃ nanowires. <i>Nanoscale</i> , 2016 , 8, 13552-7	7.7	21
258	Fabrication of Chemically Tunable, Hierarchically Branched Polymeric Nanostructures by Multi-branched Anodic Aluminum Oxide Templates. <i>Langmuir</i> , 2016 , 32, 6437-44	4	22
257	Electrochemically deposited nanocrystalline InSb thin films and their electrical properties. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1345-1350	7.1	17
256	Statistical magnetometry on isolated NiCo nanowires and nanowire arrays: a comparative study. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 145005	3	20
255	Local Magnetic Suppression of Topological Surface States in Bi ₂ Te ₃ Nanowires. <i>ACS Nano</i> , 2016 , 10, 7180-7	6.7	6
254	Reducing the nucleation barrier in magnetocaloric Heusler alloys by nanoindentation. <i>APL Materials</i> , 2016 , 4, 064101	5.7	22
253	Research Update: Magnetoionic control of magnetization and anisotropy in layered oxide/metal heterostructures. <i>APL Materials</i> , 2016 , 4, 032301	5.7	27
252	Platform for in-plane ZT measurement and Hall coefficient determination of thin films in a temperature range from 120 K up to 450 K. <i>Journal of Materials Research</i> , 2016 , 31, 3196-3204	2.5	21
251	Structural and ferroelectric properties of epitaxial BaZr _x Ti _{1-x} O ₃ thin films. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 495303	3	5
250	Stability of γ -Alumina Photonic Structures Formed at Low Temperatures Utilizing Chromia-Seeding. <i>Ceramic Transactions</i> , 2016 , 177-186	0.1	
249	Influence of the polarization anisotropy on the electrocaloric effect in epitaxial PMN-PT thin films. <i>Journal of Applied Physics</i> , 2016 , 120, 114102	2.5	6
248	Bottom-up Fabrication of Multilayer Stacks of 3D Photonic Crystals from Titanium Dioxide. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10466-76	9.5	15
247	Long-Range Hexagonal Arrangement of TiO ₂ Nanotubes by Soft Lithography-Guided Anodization. <i>Electrochimica Acta</i> , 2016 , 203, 51-58	6.7	11
246	Electrochemical and in situ magnetic study of iron/iron oxide films oxidized and reduced in KOH solution for magneto-ionic switching. <i>Electrochemistry Communications</i> , 2016 , 72, 153-156	5.1	27
245	Thermoelectric Power Factor Enhancement by Spin-Polarized Currents: A Nanowire Case Study. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600058	6.4	11
244	Surface effects on thermoelectric properties of metallic and semiconducting nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 557-570	1.6	4
243	From thermoelectric bulk to nanomaterials: Current progress for Bi ₂ Te ₃ and CoSb ₃ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016 , 213, 739-749	1.6	16

242	Thermoelectric performance of classical topological insulator nanowires. <i>Semiconductor Science and Technology</i> , 2015 , 30, 015015	1.8	34
241	Synthesis of Iron Oxide Nanorods Using a Template Mediated Approach. <i>Chemistry of Materials</i> , 2015 , 27, 4914-4917	9.6	28
240	Current-driven vortex domain wall motion in wire-tube nanostructures. <i>Applied Physics Letters</i> , 2015 , 106, 132405	3.4	12
239	Tuning the polarity of charge transport in InSb nanowires via heat treatment. <i>Nanotechnology</i> , 2015 , 26, 285701	3.4	12
238	Oersted field assisted magnetization reversal in cylindrical core-shell nanostructures. <i>Journal of Applied Physics</i> , 2015 , 117, 173914	2.5	11
237	Tailoring the nucleation of domain walls along multi-segmented cylindrical nanoelements. <i>Nanotechnology</i> , 2015 , 26, 215701	3.4	3
236	Enhanced structural and phase stability of titania inverse opals. <i>Journal of the European Ceramic Society</i> , 2015 , 35, 3103-3109	6	16
235	Dielectrophoretic investigation of BiTe nanowires-a microfabricated thermoelectric characterization platform for measuring the thermoelectric and structural properties of single nanowires. <i>Nanotechnology</i> , 2015 , 26, 125707	3.4	6
234	Self-Assembled Ultra High Strength, Ultra Stiff Mechanical Metamaterials Based on Inverse Opals. <i>Advanced Engineering Materials</i> , 2015 , 17, 1420-1424	3.5	38
233	Mechanism that governs the electro-optic response of second-order nonlinear polymers on silicon substrates. <i>Optical Materials Express</i> , 2015 , 5, 1653	2.6	4
232	TiO ₂ , SiO ₂ , and Al ₂ O ₃ coated nanopores and nanotubes produced by ALD in etched ion-track membranes for transport measurements. <i>Nanotechnology</i> , 2015 , 26, 335301	3.4	52
231	Silicon-supported aluminum oxide membranes with ultrahigh aspect ratio nanopores. <i>RSC Advances</i> , 2015 , 5, 94283-94289	3.7	9
230	Quantitative magnetometry analysis and structural characterization of multisegmented cobalt/nickel nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 379, 294-299	2.8	14
229	Density-Functional Theory Study of Point Defects in Bi ₂ Te ₃ 2015 , 165-186		
228	Magnetothermoelectric power in Co/Pt layered structures: Interface versus bulk contributions. <i>Physical Review B</i> , 2015 , 92,	3.3	7
227	Electrodeposition of Bi ₂ Te ₃ -Based Thin Films and Nanowires 2015 , 11-32		1
226	Structure and Transport Properties of Bi ₂ Te ₃ Films 2015 , 73-98		1
225	Ab Initio Description of Thermoelectric Properties Based on the Boltzmann Theory 2015 , 187-221		

224	One-dimensional edge transport on the surface of cylindrical Bi ₂ Te ₃ Se _y nanowires in transverse magnetic fields. <i>Applied Physics Letters</i> , 2015 , 107, 181602	3.4	11
223	Bulk-Nanostructured Bi ₂ Te ₃ -Based Materials: Processing, Thermoelectric Properties, and Challenges 2015 , 99-117		1
222	Bi ₂ Te ₃ Nanowires by Electrodeposition in Polymeric Etched Ion Track Membranes: Synthesis and Characterization 2015 , 33-53		
221	Old and New Things in Thermoelectricity 2015 , 1-10		
220	Development of a Thermoelectric Nanowire Characterization Platform (TNCP) for Structural and Thermoelectric Investigation of Single Nanowires 2015 , 253-281		1
219	High Energy X-ray and Neutron Scattering on Bi ₂ Te ₃ Nanowires, Nanocomposites, and Bulk Materials 2015 , 119-139		
218	Advanced Structural Characterization of Bi ₂ Te ₃ Nanomaterials 2015 , 141-163		
217	Fabrication and Comprehensive Structural and Transport Property Characterization of Nanoalloyed Nanostructured V ₂ VI ₃ Thin Film Materials 2015 , 55-72		
216	Magnon contribution to the magnetoresistance of iron nanowires deposited using pulsed electrodeposition. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015 , 9, 255-258	2.5	3
215	Thermoelectric Properties of Band Structure Engineered Topological Insulator (Bi _{1-x} Sbx) ₂ Te ₃ Nanowires. <i>Advanced Energy Materials</i> , 2015 , 5, 1500280	21.8	20
214	Measuring Techniques for Thermal Conductivity and Thermoelectric Figure of Merit of V ₂ VI ₃ Compound Thin Films and Nanowires 2015 , 223-252		1
213	Impact of the Topological Surface State on the Thermoelectric Transport in Sb ₂ Te ₃ Thin Films. <i>ACS Nano</i> , 2015 , 9, 4406-11	16.7	44
212	Unveiling the Hard Anodization Regime of Aluminum: Insight into Nanopores Self-Organization and Growth Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 28682-92	9.5	53
211	Control of persistent photoconductivity in nanostructured InP through morphology design. <i>Semiconductor Science and Technology</i> , 2015 , 30, 035014	1.8	9
210	Self-Assembled Monolayer of Au Nanodots Deposited on Porous Semiconductor Structures. <i>ECS Electrochemistry Letters</i> , 2015 , 4, D8-D10		10
209	G ₂ band in double- and triple-walled carbon nanotubes: A Raman study. <i>Physical Review B</i> , 2015 , 91,	3.3	15
208	Role of intertube interactions in double- and triple-walled carbon nanotubes. <i>ACS Nano</i> , 2014 , 8, 1330-41	16.7	20
207	Electrochemical synthesis of coaxial TiO ₂ /Ag nanowires and their application in photocatalytic water splitting. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2648-2656	13	34

206	Low Temperature Stabilization of Nanoscale Epitaxial Spinel Ferrite Thin Films by Atomic Layer Deposition. <i>Advanced Functional Materials</i> , 2014 , 24, 5368-5374	15.6	36
205	Constrained Order in Nanoporous Alumina with High Aspect Ratio: Smart Combination of Interference Lithography and Hard Anodization. <i>Advanced Functional Materials</i> , 2014 , 24, 1857-1863	15.6	25
204	Magnetothermopower and magnetoresistance of single Co-Ni/Cu multilayered nanowires. <i>Physical Review B</i> , 2014 , 90,	3.3	46
203	Formation of InP nanomembranes and nanowires under fast anodic etching of bulk substrates. <i>Electrochemistry Communications</i> , 2014 , 47, 29-32	5.1	11
202	Polymer-assisted self-assembly of superparamagnetic iron oxide nanoparticles into well-defined clusters: controlling the collective magnetic properties. <i>Langmuir</i> , 2014 , 30, 11190-6	4	37
201	Template-assisted Co/Ni alloys and multisegmented nanowires with tuned magnetic anisotropy. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1041-1047	1.6	42
200	Are Binary Copper Sulfides/Selenides Really New and Promising Thermoelectric Materials?. <i>Advanced Energy Materials</i> , 2014 , 4, 1301581	21.8	169
199	Deposition of topological insulator Sb ₂ Te ₃ films by an MOCVD process. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8215	13	35
198	Magnetothermoelectric figure of merit of Co/Cu multilayers. <i>Applied Physics Letters</i> , 2014 , 104, 092411	3.4	12
197	Electrochemical synthesis and magnetic characterization of periodically modulated Co nanowires. <i>Nanotechnology</i> , 2014 , 25, 145301	3.4	45
196	Growth of ZnCdS single crystals and prospects of their application as nanoporous structures. <i>Semiconductor Science and Technology</i> , 2014 , 29, 125003	1.8	12
195	The effect of a distinct diameter variation on the thermoelectric properties of individual Bi _{0.39} Te _{0.61} nanowires. <i>Semiconductor Science and Technology</i> , 2014 , 29, 124006	1.8	22
194	Temperature and bias-voltage dependence of atomic-layer-deposited HfO ₂ -based magnetic tunnel junctions. <i>Applied Physics Letters</i> , 2014 , 105, 132405	3.4	5
193	Electrochemical synthesis of highly ordered nanowires with a rectangular cross section using an in-plane nanochannel array. <i>Nanotechnology</i> , 2014 , 25, 504002	3.4	7
192	Thermoelectric properties of topological insulator Bi ₂ Te ₃ , Sb ₂ Te ₃ , and Bi ₂ Se ₃ thin film quantum wells. <i>Applied Physics Letters</i> , 2014 , 105, 123117	3.4	62
191	Magnetic characterization and electrical field-induced switching of magnetite thin films synthesized by atomic layer deposition and subsequent thermal reduction. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 485001	3	15
190	Resolving the Dirac cone on the surface of Bi ₂ Te ₃ topological insulator nanowires by field-effect measurements. <i>Applied Physics Letters</i> , 2014 , 104, 243115	3.4	27
189	Kinetics of the charge ordering in magnetite below the Verwey temperature. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 472202	1.8	1

188	Thermopower engineering of Bi ₂ Te ₃ without alloying: the interplay between nanostructuring and defect activation. <i>Semiconductor Science and Technology</i> , 2014 , 29, 064003	1.8	25
187	The influence of a Te-depleted surface on the thermoelectric transport properties of Bi ₂ Te ₃ nanowires. <i>Nanotechnology</i> , 2014 , 25, 365401	3.4	10
186	Porosification of IIIIV and IIIV Semiconductor Compounds. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2014 , 9, 307-311	1.3	7
185	Electroplating and magnetostructural characterization of multisegmented Co ₅₄ Ni ₄₆ /Co ₈₅ Ni ₁₅ nanowires from single electrochemical bath in anodic alumina templates. <i>Nanoscale Research Letters</i> , 2013 , 8, 263	5	50
184	Thermoelectric characterization of bismuth telluride nanowires, synthesized via catalytic growth and post-annealing. <i>Advanced Materials</i> , 2013 , 25, 239-44	24	73
183	Magnetic properties of multisegmented cylindrical nanoparticles with alternating magnetic wire and tube segments. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 346, 171-174	2.8	23
182	Multisegmented nanotubes by surface-selective atomic layer deposition. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 621-625	7.1	11
181	Thermoelectric power factor of ternary single-crystalline Sb ₂ Te ₃ - and Bi ₂ Te ₃ -based nanowires. <i>Nanotechnology</i> , 2013 , 24, 495402	3.4	36
180	Electrical conductivity and Seebeck coefficient measurements of single nanowires by utilizing a microfabricated thermoelectric nanowire characterization platform 2013 ,		6
179	Large thermoelectric power factor enhancement observed in InAs nanowires. <i>Nano Letters</i> , 2013 , 13, 4080-6	11.5	100
178	Phonon spectroscopy in a Bi ₂ Te ₃ nanowire array. <i>Nanoscale</i> , 2013 , 5, 10629-35	7.7	14
177	Rapid, conformal gas-phase formation of silica (SiO ₂) nanotubes from water condensates. <i>Nanoscale</i> , 2013 , 5, 5825-32	7.7	5
176	Dreiwandige Kohlenstoff-Nanoröhren atmen lassen. <i>Physik in Unserer Zeit</i> , 2013 , 44, 215-216	0.1	
175	Investigation on the homogeneity of pulsed electrochemically deposited thermoelectric films with synchrotron EXRF, EXRD and EXANES. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 4215	13	3
174	Confined crystallization of anatase TiO ₂ nanotubes and their implications on transport properties. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14080	13	26
173	Characterization of bundled and individual triple-walled carbon nanotubes by resonant Raman spectroscopy. <i>ACS Nano</i> , 2013 , 7, 2381-7	16.7	28
172	Magnetic properties of cylindrical diameter modulated Ni ₈₀ Fe ₂₀ nanowires: interaction and coercive fields. <i>Nanoscale</i> , 2013 , 5, 3941-7	7.7	70
171	Anisotropic magnetothermal resistance in Ni nanowires. <i>Physical Review B</i> , 2013 , 87,	3.3	14

170	Thermoelectric transport and Hall measurements of low defect Sb ₂ Te ₃ thin films grown by atomic layer deposition. <i>Semiconductor Science and Technology</i> , 2013 , 28, 035010	1.8	62
169	Changes in morphology and ionic transport induced by ALD SiO ₂ coating of nanoporous alumina membranes. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3556-64	9.5	54
168	Domain wall control in wire-tube nanoelements. <i>Applied Physics Letters</i> , 2013 , 102, 202407	3.4	20
167	Aharonov-Bohm oscillations and weak antilocalization in topological insulator Sb ₂ Te ₃ nanowires. <i>Applied Physics Letters</i> , 2013 , 102, 223110	3.4	46
166	Field-dependent thermal conductivity and Lorenz number in Co/Cu multilayers. <i>Physical Review B</i> , 2013 , 87,	3.3	15
165	Optimizations of Pulsed Plated p and n-type Bi ₂ Te ₃ -Based Ternary Compounds by Annealing in Different Ambient Atmospheres. <i>Advanced Energy Materials</i> , 2013 , 3, 95-104	21.8	70
164	Photonic properties of titania inverse opal heterostructures. <i>Optical Materials Express</i> , 2013 , 3, 1007	2.6	16
163	Gate voltage induced phase transition in magnetite nanowires. <i>Applied Physics Letters</i> , 2013 , 102, 073113	3.4	21
162	Magnetotransport and thermopower of single Bi _{0.92} Sb _{0.08} nanowires. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 898-902	2.5	4
161	Magneto-thermopower and magnetoresistance of single Co-Ni alloy nanowires. <i>Applied Physics Letters</i> , 2013 , 103, 092407	3.4	63
160	Electrical transport in C-doped GaAs nanowires: surface effects. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 890-893	2.5	13
159	A MEMS platform for the dielectrophoretic and thermoelectric characterization of Bi ₂ Te ₃ nanowires 2013 ,		1
158	Single-Source Precursor-Based Deposition of Sb ₂ Te ₃ Films by MOCVD**. <i>Chemical Vapor Deposition</i> , 2013 , 19, 235-241		31
157	Surface state dominated transport in topological insulator Bi ₂ Te ₃ nanowires. <i>Applied Physics Letters</i> , 2013 , 103, 193107	3.4	50
156	Stoichiometry Controlled, Single-Crystalline Bi ₂ Te ₃ Nanowires for Transport in the Basal Plane. <i>Advanced Functional Materials</i> , 2012 , 22, 151-156	15.6	46
155	Magneto-optical properties of core-shell magneto-plasmonic Au-Co(x)Fe(3-x)O ₄ nanowires. <i>Langmuir</i> , 2012 , 28, 9127-30	4	36
154	REMOVED: Effect of Ald SiO ₂ Surface Coverage of a Nanoporous Alumina Membrane on Electrical and Transport Parameters. <i>Procedia Engineering</i> , 2012 , 44, 707-709		
153	Magnetization reversal in multisegmented nanowires: Parallel and serial reversal modes. <i>Applied Physics Letters</i> , 2012 , 101, 122412	3.4	12

152 Coatings of Nanoparticles and Nanowires **2012**, 251-270

151	Magnetic characterization of nickel-rich NiFe nanowires grown by pulsed electrodeposition. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8549		65
150	Stacking of Ceramic Inverse Opals with Different Lattice Constants. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 2226-2235	3.8	21
149	Depth-profile analysis of thermoelectric layers on Si wafers by pulsed r.f. glow discharge time-of-flight mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2012 , 76, 175-180	3.1	14
148	Reversal modes and magnetostatic interactions in Fe ₃ O ₄ /ZrO ₂ /Fe ₃ O ₄ multilayer nanotubes. <i>Nanotechnology</i> , 2012 , 23, 495718	3.4	31
147	Tuning the magnetic anisotropy of Co-Ni nanowires: comparison between single nanowires and nanowire arrays in hard-anodic aluminum oxide membranes. <i>Nanotechnology</i> , 2012 , 23, 465709	3.4	102
146	Optimization of Electrodeposited p-Doped Sb ₂ Te ₃ Thermoelectric Films by Millisecond Potentiostatic Pulses. <i>Advanced Energy Materials</i> , 2012 , 2, 345-352	21.8	56
145	Single-Crystalline, Stoichiometric Bi ₂ Te ₃ Nanowires for Transport in the Basal Plane. <i>Journal of Electronic Materials</i> , 2012 , 41, 1509-1512	1.9	9
144	Nanostructure, Excitations, and Thermoelectric Properties of Bi ₂ Te ₃ -Based Nanomaterials. <i>Journal of Electronic Materials</i> , 2012 , 41, 1792-1798	1.9	19
143	Thermal radiation transmission and reflection properties of ceramic 3D photonic crystals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 450	1.7	25
142	Insights into the electronic structure of Co ₂ FeSi from x-ray magnetic linear dichroism. <i>Physical Review B</i> , 2012 , 86,	3.3	19
141	Enhanced magneto-thermoelectric power factor of a 70 nm Ni-nanowire. <i>Journal of Applied Physics</i> , 2012 , 111, 104320	2.5	28
140	Synthesis Approaches of Inorganic Nanotubes 2011 , 413-429		
139	Experimental evidence for an angular dependent transition of magnetization reversal modes in magnetic nanotubes. <i>Journal of Applied Physics</i> , 2011 , 109, 093910	2.5	72
138	Magnetic reversal of cylindrical nickel nanowires with modulated diameters. <i>Journal of Applied Physics</i> , 2011 , 109, 033907	2.5	57
137	Low loss EELS and EFTEM study of Bi ₂ Te ₃ based bulk and nanomaterials. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1329, 1		6
136	Understanding pore rearrangement during mild to hard transition in bilayered porous anodic alumina membranes. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1925-32	9.5	38
135	Surface modification and fabrication of 3D nanostructures by atomic layer deposition. <i>MRS Bulletin</i> , 2011 , 36, 887-897	3.2	53

134	Thermal conductivity measurements using 1 μ m and 3 μ m methods revisited for voltage-driven setups. <i>Review of Scientific Instruments</i> , 2011 , 82, 074903	1.7	17
133	Nickel nanoparticles in fullerene matrix fabricated by co-evaporation: structural, magnetic, and magneto-optical properties. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 103, 433-438	2.6	6
132	Structural and magnetic phenomena in ultrathin C/Co/C stacks prepared by DC magnetron sputtering. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 1698-1703	1.6	3
131	Ferromagnetism and Morphology of Annealed Fe ₂ O ₃ /Co _x O _y /ZnO Thin Films. <i>Advanced Engineering Materials</i> , 2011 , 13, 330-335	3.5	
130	Magnetic, Multilayered Nanotubes of Low Aspect Ratios for Liquid Suspensions. <i>Advanced Functional Materials</i> , 2011 , 21, 226-232	15.6	34
129	Thermoelectric Nanostructures: From Physical Model Systems towards Nanograined Composites. <i>Advanced Energy Materials</i> , 2011 , 1, 713-731	21.8	193
128	Stoichiometry of Nickel Oxide Films Prepared by ALD. <i>Chemical Vapor Deposition</i> , 2011 , 17, 177-180		35
127	Precision improvements by the use of principal component regression and pooled regression applied to main component determinations with ICP-OES for thermoelectric films. <i>Journal of Analytical Atomic Spectrometry</i> , 2011 , 26, 2477	3.7	11
126	Towards ceramic 3DOM-materials as novel high-temperature reflective coatings and filters for thermophotovoltaics. <i>IOP Conference Series: Materials Science and Engineering</i> , 2011 , 18, 182004	0.4	2
125	Synthesis and magnetic characterization of MnAs nanoparticles via nanoparticle conversion. <i>Nanotechnology</i> , 2011 , 22, 055602	3.4	10
124	Processing of hollow micro- and nanostructures using the hydrophilic nature of MgO. <i>Precision Engineering</i> , 2011 , 35, 496-499	2.9	4
123	Superparamagnetic behavior in cobalt iron oxide nanotube arrays by atomic layer deposition. <i>Journal of Applied Physics</i> , 2011 , 110, 043930	2.5	14
122	Photoemission electron microscopy of three-dimensional magnetization configurations in core-shell nanostructures. <i>Physical Review B</i> , 2011 , 84,	3.3	44
121	Itinerant and localized magnetic moments in ferrimagnetic Mn ₂ CoGa thin films probed by x-ray magnetic linear dichroism: Experiment and ab initio theory. <i>Physical Review B</i> , 2011 , 84,	3.3	49
120	(Invited) Tailor-Made, Magnetic Nanotubes by Template-Directed Atomic Layer Deposition. <i>ECS Transactions</i> , 2011 , 41, 111-121	1	5
119	Stability of magnetic nanoparticles inside ferromagnetic nanotubes. <i>Applied Physics Letters</i> , 2011 , 98, 022502	3.4	10
118	Low temperature silicon dioxide by thermal atomic layer deposition: Investigation of material properties. <i>Journal of Applied Physics</i> , 2010 , 107, 064314	2.5	73
117	Direct Atomic Layer Deposition of Ternary Ferrites with Various Magnetic Properties. <i>Chemistry of Materials</i> , 2010 , 22, 6506-6508	9.6	38

116	The transition between conformal atomic layer epitaxy and nanowire growth. <i>Journal of the American Chemical Society</i> , 2010 , 132, 7592-4	16.4	20
115	Multiple nanowire species synthesized on a single chip by selectively addressable horizontal nanochannels. <i>Nano Letters</i> , 2010 , 10, 1341-6	11.5	20
114	Disproportionation of thermoelectric bismuth telluride nanowires as a result of the annealing process. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 15247-50	3.6	27
113	Power factor measurements of bismuth telluride nanowires grown by pulsed electrodeposition. <i>Physica Status Solidi - Rapid Research Letters</i> , 2010 , 4, 43-45	2.5	21
112	Temperature-Dependent Solid-State Reactions With and Without Kirkendall Effect in Al ₂ O ₃ /ZnO, Fe ₂ O ₃ /ZnO, and Co ₃ O ₄ /ZnO Oxide Thin Film Systems. <i>Advanced Engineering Materials</i> , 2010 , 12, 509-516	3.5	9
111	Multilayered core/shell nanowires displaying two distinct magnetic switching events. <i>Advanced Materials</i> , 2010 , 22, 2435-9	24	96
110	A novel synthesis of ultrathin CoPt ₃ nanowires by dealloying larger diameter Co ₉₉ Pt ₁ nanowires and subsequent stress-induced crack propagation. <i>Electrochemistry Communications</i> , 2010 , 12, 835-838	5.1	8
109	Electrochemical route to thermoelectric nanowires via organic electrolytes. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 1384-1392	1.3	12
108	Tubular magnetic nanostructures based on glancing angle deposited templates and atomic layer deposition. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 1365-1371	1.3	21
107	Preparation and magnetoviscosity of nanotube ferrofluids by viral scaffolding and ALD on porous templates. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2412-2423	1.3	19
106	Atomic layer deposition of ZnS nanotubes. <i>Nanotechnology</i> , 2009 , 20, 325602	3.4	20
105	Size effects in ordered arrays of magnetic nanotubes: Pick your reversal mode. <i>Journal of Applied Physics</i> , 2009 , 105, 07B521	2.5	55
104	Wafer-scale arrays of epitaxial ferroelectric nanodiscs and nanorings. <i>Nanotechnology</i> , 2009 , 20, 015301	3.4	13
103	Pulsed Vapor-Liquid-Solid Growth of Antimony Selenide and Antimony Sulfide Nanowires. <i>Advanced Materials</i> , 2009 , 21, 3170-3174	24	46
102	A micron-sized nanoporous multifunction sensing device. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 435-441	1.6	12
101	Domain wall propagation in Permalloy nanowires with a thickness gradient. <i>Superlattices and Microstructures</i> , 2009 , 46, 728-731	2.8	1
100	Magnetic cylindrical nanowires with single modulated diameter. <i>Physical Review B</i> , 2009 , 80,	3.3	27
99	Controlled introduction of diameter modulations in arrayed magnetic iron oxide nanotubes. <i>ACS Nano</i> , 2009 , 3, 3463-8	16.7	100

98	A novel approach for fabrication of bismuth-silicon dioxide core-shell structures by atomic layer deposition. <i>Journal of Materials Chemistry</i> , 2009 , 19, 7050		23
97	Local modes and two magnon scattering in ordered permalloy antidot arrays. <i>Journal of Applied Physics</i> , 2009 , 105, 07C113	2.5	18
96	Atomic Layer Deposition of Antimony Oxide and Antimony Sulfide. <i>Chemistry of Materials</i> , 2009 , 21, 2586-2588	2.8	28
95	Self-ordered anodic aluminum oxide formed by H ₂ SO ₄ hard anodization. <i>ACS Nano</i> , 2008 , 2, 302-10	16.7	198
94	Crossover between two different magnetization reversal modes in arrays of iron oxide nanotubes. <i>Physical Review B</i> , 2008 , 77,	3.3	134
93	Patterning of magnetic structures on austenitic stainless steel by local ion beam nitriding. <i>Acta Materialia</i> , 2008 , 56, 4570-4576	8.4	16
92	Tuning the crystallinity of thermoelectric Bi ₂ Te ₃ nanowire arrays grown by pulsed electrodeposition. <i>Nanotechnology</i> , 2008 , 19, 365701	3.4	80
91	Manipulating feature sizes in Si-based grating structures by thermal oxidation. <i>Nanotechnology</i> , 2008 , 19, 325305	3.4	2
90	Magnetization dynamics in optically excited nanostructured nickel films. <i>New Journal of Physics</i> , 2008 , 10, 123004	2.9	12
89	A practical, self-catalytic, atomic layer deposition of silicon dioxide. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 6177-9	16.4	120
88	Selbstkatalytische Atomlagenabscheidung von Siliciumdioxid. <i>Angewandte Chemie</i> , 2008 , 120, 6272-6274	4.6	5
87	Microstructure and temperature-dependent magnetic properties of Co/Pt multilayered nanowires. <i>Chemical Physics Letters</i> , 2008 , 466, 165-169	2.5	26
86	Microstructured horizontal alumina pore arrays as growth templates for large area few and single nanowire devices. <i>Physica Status Solidi - Rapid Research Letters</i> , 2008 , 2, 59-61	2.5	11
85	Aligned Horizontal Silica Nanochannels by Oxidative Self-Sealing of Patterned Silicon Wafers. <i>Chemistry of Materials</i> , 2007 , 19, 3-5	9.6	19
84	Ordered iron oxide nanotube arrays of controlled geometry and tunable magnetism by atomic layer deposition. <i>Journal of the American Chemical Society</i> , 2007 , 129, 9554-5	16.4	219
83	Ordered Ni nanohole arrays with engineered geometrical aspects and magnetic anisotropy. <i>Applied Physics Letters</i> , 2007 , 90, 192501	3.4	53
82	Formation of titania/silica hybrid nanowires containing linear mesocage arrays by evaporation-induced block-copolymer self-assembly and atomic layer deposition. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6829-32	16.4	25
81	Formation of Titania/Silica Hybrid Nanowires Containing Linear Mesocage Arrays by Evaporation-Induced Block-Copolymer Self-Assembly and Atomic Layer Deposition. <i>Angewandte Chemie</i> , 2007 , 119, 6953-6956	3.6	3

80	Enhanced Magneto-Optics and Size Effects in Ferromagnetic Nanowire Arrays. <i>Advanced Materials</i> , 2007 , 19, 2643-2647	24	82
79	Synthesis and Surface Engineering of Complex Nanostructures by Atomic Layer Deposition. <i>Advanced Materials</i> , 2007 , 19, 3425-3438	24	728
78	Laser-interference lithography tailored for highly symmetrically arranged ZnO nanowire arrays. <i>Small</i> , 2007 , 3, 76-80	11	86
77	Fabrication and magnetic properties of hexagonal arrays of NiFe elongated nanomagnets. <i>Journal of Magnetism and Magnetic Materials</i> , 2007 , 316, e44-e47	2.8	12
76	Template-based Synthesis and Characterization of High-density Ferromagnetic Nanowire Arrays 2007 ,		2
75	Magnetic properties of bi-phase micro- and nanotubes. <i>Nanotechnology</i> , 2007 , 18, 225704	3.4	14
74	Ferromagnetic nanotubes by atomic layer deposition in anodic alumina membranes. <i>Journal of Applied Physics</i> , 2007 , 101, 09J111	2.5	154
73	Influence of surface diffusion on the formation of hollow nanostructures induced by the Kirkendall effect: the basic concept. <i>Nano Letters</i> , 2007 , 7, 993-7	11.5	337
72	Self-ordering behavior of nanoporous anodic aluminum oxide (AAO) in malonic acid anodization. <i>Nanotechnology</i> , 2007 , 18, 475713	3.4	110
71	Ferromagnetic Nanostructures by Atomic Layer Deposition: From Thin Films Towards Core-Shell Nanotubes. <i>ECS Transactions</i> , 2007 , 11, 139-148	1	15
70	Angular dependence of coercivity in magnetic nanotubes. <i>Nanotechnology</i> , 2007 , 18, 445706	3.4	71
69	Templated Fabrication of Nanowire and Nanoring Arrays Based on Interference Lithography and Electrochemical Deposition. <i>Advanced Materials</i> , 2006 , 18, 2593-2596	24	73
68	Additive patterning of ion-beam-sputtered non-conformal Ni ₈₀ Fe ₂₀ and Co ₇₀ Fe ₃₀ magnetic films. <i>Nanotechnology</i> , 2006 , 17, 2040-2045	3.4	8
67	Atomic Layer Deposition on Biological Macromolecules. <i>ECS Transactions</i> , 2006 , 3, 219-225	1	5
66	Spin waves in permalloy nanowires: The importance of easy-plane anisotropy. <i>Physical Review B</i> , 2006 , 73,	3.3	21
65	Single-crystalline MgAl ₂ O ₄ spinel nanotubes using a reactive and removable MgO nanowire template. <i>Nanotechnology</i> , 2006 , 17, 5157-5162	3.4	63
64	Atomic layer deposition on biological macromolecules: metal oxide coating of tobacco mosaic virus and ferritin. <i>Nano Letters</i> , 2006 , 6, 1172-7	11.5	183
63	Surface-enhanced Raman spectroscopy employing monodisperse nickel nanowire arrays. <i>Applied Physics Letters</i> , 2006 , 88, 023106	3.4	33

62	Template-assisted large-scale ordered arrays of ZnO pillars for optical and piezoelectric applications. <i>Small</i> , 2006 , 2, 561-8	11	194
61	Wafer-scale Ni imprint stamps for porous alumina membranes based on interference lithography. <i>Small</i> , 2006 , 2, 978-82	11	126
60	Monocrystalline spinel nanotube fabrication based on the Kirkendall effect. <i>Nature Materials</i> , 2006 , 5, 627-31	27	642
59	Fast fabrication of long-range ordered porous alumina membranes by hard anodization. <i>Nature Materials</i> , 2006 , 5, 741-7	27	1112
58	Enhancement of weak anti-localization signatures in the magneto-resistance of bismuth anti-dot thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 82, 471-474	2.6	7
57	Vertical nanopatterning of 6H-SiC(0001) surfaces using gold-metal nanotube membrane lithography. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 83, 361-363	2.6	8
56	Etching nano-holes in silicon carbide using catalytic platinum nano-particles. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 84, 369-371	2.6	8
55	Growth and characterization of epitaxial ferroelectric lanthanum-substituted bismuth titanate nanostructures with three different orientations. <i>Journal of Applied Physics</i> , 2005 , 98, 124302	2.5	7
54	High-Density Nickel Nanowire Arrays 2005 , 165-184		
53	Metal Membranes with Hierarchically Organized Nanotube Arrays. <i>Chemistry of Materials</i> , 2005 , 17, 3325-3327	2.5	68
52	In situ surface-enhanced Raman spectroscopy of monodisperse silver nanowire arrays. <i>Journal of Applied Physics</i> , 2005 , 97, 024308	2.5	38
51	Arrays of vertically aligned and hexagonally arranged ZnO nanowires: a new template-directed approach. <i>Nanotechnology</i> , 2005 , 16, 913-917	3.4	138
50	Magnetic behavior of Ni _x Fe _(100-x) (65?x?100) nanowire arrays. <i>Journal of Magnetism and Magnetic Materials</i> , 2005 , 290-291, 191-194	2.8	20
49	A template-based electrochemical method for the synthesis of multisegmented metallic nanotubes. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6050-4	16.4	231
48	A Template-Based Electrochemical Method for the Synthesis of Multisegmented Metallic Nanotubes. <i>Angewandte Chemie</i> , 2005 , 117, 6204-6208	3.6	45
47	Synthesis of Cobalt/Polymer Multilayer Nanotubes. <i>Advanced Engineering Materials</i> , 2005 , 7, 217-221	3.5	94
46	Magnetic properties of template-synthesized cobalt/polymer composite nanotubes. <i>Journal of Applied Physics</i> , 2005 , 98, 034318	2.5	95
45	Well-ordered large-area arrays of epitaxial ferroelectric (Bi,Lu)4Ti3O12 nanostructures fabricated by gold nanotube-membrane lithography. <i>Applied Physics Letters</i> , 2005 , 86, 152906	3.4	31

44	Anisotropy and magnetotransport in ordered magnetic antidot arrays. <i>Applied Physics Letters</i> , 2004 , 85, 2872-2874	3.4	63
43	Hexagonal-arranged ZnO Nanowire Arrays by Using Au Nanohole Membranes as Fabrication Template. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 849, 154		
42	FMR characterization of hexagonal arrays of Ni nanowires. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1652-1653	2.8	26
41	Modelling hysteresis of interacting nanowires arrays. <i>Physica B: Condensed Matter</i> , 2004 , 343, 395-402	2.8	46
40	Patterned growth of aligned ZnO nanowire arrays on sapphire and GaN layers. <i>Superlattices and Microstructures</i> , 2004 , 36, 95-105	2.8	67
39	Study of the magnetic hysteresis in arrays of ferromagnetic Fe nanowires as a function of the template filling fraction. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1656-1657	2.8	36
38	Novel magnetic materials prepared by electrodeposition techniques: arrays of nanowires and multi-layered microwires. <i>Journal of Alloys and Compounds</i> , 2004 , 369, 18-26	5.7	77
37	Hexagonally Arranged Monodisperse Silver Nanowires with Adjustable Diameter and High Aspect Ratio. <i>Chemistry of Materials</i> , 2003 , 15, 776-779	9.6	214
36	Magneto-optical properties of nickel nanowire arrays. <i>Applied Physics Letters</i> , 2003 , 83, 4547-4549	3.4	80
35	Monodisperse metal nanowire arrays on Si by integration of template synthesis with silicon technology. <i>Journal of Materials Chemistry</i> , 2003 , 13, 1100-1103		45
34	Fabrication of monodomain alumina pore arrays with an interpore distance smaller than the lattice constant of the imprint stamp. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003 , 21, 763		114
33	Monodisperse Diameter-Modulated Gold Microwires. <i>Advanced Materials</i> , 2002 , 14, 1618-1621	24	60
32	High aspect ratio microstructures based on anisotropic porous materials. <i>Microsystem Technologies</i> , 2002 , 8, 7-9	1.7	18
31	High density hexagonal nickel nanowire array. <i>Journal of Magnetism and Magnetic Materials</i> , 2002 , 249, 234-240	2.8	130
30	Self-ordering Regimes of Porous Alumina: The 10 Porosity Rule. <i>Nano Letters</i> , 2002 , 2, 677-680	11.5	853
29	Large-area porous alumina photonic crystals via imprint method. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 722, 521		23
28	Spin-wave quantization in ferromagnetic nickel nanowires. <i>Physical Review Letters</i> , 2002 , 89, 027201	7.4	145
27	Switching behavior of single nanowires inside dense nickel nanowire arrays. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 2571-2573	2	63

26	Polymer nanotubes by wetting of ordered porous templates. <i>Science</i> , 2002 , 296, 1997	33.3	752
25	Highly ordered monocrystalline silver nanowire arrays. <i>Journal of Applied Physics</i> , 2002 , 91, 3243-3247	2.5	330
24	Magnetization reversal in granular nanowires. <i>IEEE Transactions on Magnetics</i> , 2002 , 38, 2580-2582	2	18
23	Hexagonally ordered 100 nm period nickel nanowire arrays. <i>Applied Physics Letters</i> , 2001 , 79, 1360-1362	3.4	490
22	High Density Hexagonal Nickel Nanowire Arrays with 65 and 100 nm-PERIOD. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 705, 931		2
21	Magnetic Properties of 100 NM-Period Nickel Nanowire Arrays Obtained from Ordered Porous-Alumina Templates. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 636, 191		13
20	Uniform Nickel Deposition into Ordered Alumina Pores by Pulsed Electrodeposition. <i>Advanced Materials</i> , 2000 , 12, 582-586	24	719
19	Uniform Nickel Deposition into Ordered Alumina Pores by Pulsed Electrodeposition 2000 , 12, 582		4
18	Uniform Nickel Deposition into Ordered Alumina Pores by Pulsed Electrodeposition 2000 , 12, 582		64
17	Polycrystalline nanopore arrays with hexagonal ordering on aluminum. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999 , 17, 1428-1431	2.9	112
16	Fabrication and Microstructuring of Hexagonally Ordered Two-Dimensional Nanopore Arrays in Anodic Alumina. <i>Advanced Materials</i> , 1999 , 11, 483-487	24	245
15	Fabrication and Microstructuring of Hexagonally Ordered Two-Dimensional Nanopore Arrays in Anodic Alumina 1999 , 11, 483		2
14	Fabrication and Microstructuring of Hexagonally Ordered Two-Dimensional Nanopore Arrays in Anodic Alumina 1999 , 11, 483		11
13	Hexagonal pore arrays with a 50 \times 20 nm interpore distance formed by self-organization in anodic alumina. <i>Journal of Applied Physics</i> , 1998 , 84, 6023-6026	2.5	1316
12	Monodisperse aerosol particle deposition: Prospects for nanoelectronics. <i>Microelectronic Engineering</i> , 1998 , 41-42, 535-538	2.5	31
11	Feasibility study of nanoparticle synthesis from powders of compounds with incongruent sublimation behavior by the evaporation/ condensation method. <i>Scripta Materialia</i> , 1998 , 10, 565-573		7
10	Preparation of size-classified PbS nanoparticles in the gas phase. <i>Applied Physics Letters</i> , 1998 , 73, 547-549	3.4	51
9	Formation of ultrafine particles from powders of compounds with incongruent sublimation behavior. <i>Journal of Aerosol Science</i> , 1997 , 28, S495-S496	4.3	1

8	Synthesis of nano-sized lead sulfide particles. <i>Journal of Aerosol Science</i> , 1997 , 28, S755-S756	4.3	4
7	Geometric Study of Polymer Embedded Micro Thermoelectric Cooler with Optimized Contact Resistance. <i>Advanced Electronic Materials</i> ,2101042	6.4	1
6	State with spontaneously broken time-reversal symmetry above the superconducting phase transition. <i>Nature Physics</i> ,	16.2	4
5	Effect of Powder ALD Interface Modification on the Thermoelectric Performance of Bismuth. <i>Advanced Materials Technologies</i> ,2100953	6.8	7
4	Comparative study of Fe(Se,Te) thin films on flexible coated conductor templates and single-crystal substrates. <i>Superconductor Science and Technology</i> ,	3.1	1
3	Low-Temperature Atomic Layer Deposition of High- k SbO _x for Thin Film Transistors. <i>Advanced Electronic Materials</i> ,2101334	6.4	4
2	Crystal Structure Analysis and Magneto-Transport Investigation of Co _{1-x} Fe _x Si (with x = 0% to x = 20%). <i>Advanced Electronic Materials</i> ,2101081	6.4	
1	Characteristics of ALD-ZnO Thin Film Transistor Using H ₂ O and H ₂ O ₂ as Oxygen Sources. <i>Advanced Materials Interfaces</i> ,2101953	4.6	2