

Klaus Leifer

List of Publications by Year in descending order

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184
papers

4,410
citations

101384

36
h-index

143772

57
g-index

192
all docs

192
docs citations

192
times ranked

5541
citing authors

#	ARTICLE	IF	CITATIONS
1	Brittleâ€”Ductile Transition in Uniaxial Compression of Silicon Pillars at Room Temperature. <i>Advanced Functional Materials</i> , 2009, 19, 2439-2444.	7.8	254
2	Large Efficiency Improvement in Cu ₂ ZnSnSe ₄ Solar Cells by Introducing a Superficial Ge Nanolayer. <i>Advanced Energy Materials</i> , 2015, 5, 1501070.	10.2	188
3	Focused electron beam induced deposition of gold. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2000, 18, 3168.	1.6	151
4	Plastic deformation of gallium arsenide micropillars under uniaxial compression at room temperature. <i>Applied Physics Letters</i> , 2007, 90, 043123.	1.5	132
5	Mechanisms of self-ordering in nonplanar epitaxy of semiconductor nanostructures. <i>Physical Review B</i> , 2002, 65, .	1.1	117
6	Ductileâ€”brittle transition in micropillar compression of GaAs at room temperature. <i>Philosophical Magazine</i> , 2011, 91, 1190-1199.	0.7	111
7	Tailoring the Thermal and Mechanical Properties of Graphene Film by Structural Engineering. <i>Small</i> , 2018, 14, e1801346.	5.2	106
8	Complex Surface Chemistry of Kesterites: Cu/Zn Reordering after Low Temperature Postdeposition Annealing and Its Role in High Performance Devices. <i>Chemistry of Materials</i> , 2015, 27, 5279-5287.	3.2	99
9	Conductivity engineering of graphene by defect formation. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 045404.	1.3	89
10	Cu ₂ ZnSnSe ₄ solar cells with 10.6% efficiency through innovative absorber engineering with Ge superficial nanolayer. <i>Progress in Photovoltaics: Research and Applications</i> , 2016, 24, 1359-1367.	4.4	77
11	Emulsion Electrospinning as an Approach to Fabricate PLGA/Chitosan Nanofibers for Biomedical Applications. <i>BioMed Research International</i> , 2014, 2014, 1-13.	0.9	66
12	Mild sonochemical exfoliation of bromine-intercalated graphite: a new route towards graphene. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 112003.	1.3	64
13	A site-specific focused-ion-beam lift-out method for cryo Transmission Electron Microscopy. <i>Journal of Structural Biology</i> , 2012, 180, 572-576.	1.3	63
14	Quantitative Magnetic Information from Reciprocal Space Maps in Transmission Electron Microscopy. <i>Physical Review Letters</i> , 2009, 102, 037201.	2.9	61
15	Improved gas sensing activity in structurally defected bilayer graphene. <i>Nanotechnology</i> , 2012, 23, 505501.	1.3	61
16	Structure and optical properties of semiconductor quantum nanostructures self-formed in inverted tetrahedral pyramids. <i>Journal of Physics Condensed Matter</i> , 1999, 11, 5901-5915.	0.7	60
17	Metal-free photochemical silylations and transfer hydrogenations of benzenoid hydrocarbons and graphene. <i>Nature Communications</i> , 2016, 7, 12962.	5.8	58
18	Development of Ni/Ti multilayer supermirrors for neutron optics. <i>Thin Solid Films</i> , 1994, 246, 110-119.	0.8	57

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19	Effect of gallium grading in Cu(In,Ga)Se ₂ solar-cell absorbers produced by multi-stage coevaporation. Solar Energy Materials and Solar Cells, 2011, 95, 721-726.	3.0	57
20	Two-, Three-, and Four-Component Magnetic Multilayer Onion Nanoparticles Based on Iron Oxides and Manganese Oxides. Journal of the American Chemical Society, 2011, 133, 16738-16741.	6.6	55
21	Coronene Fusion by Heat Treatment: Road to Nanographenes. Journal of Physical Chemistry C, 2011, 115, 13207-13214.	1.5	52
22	Mechanisms of Quantum Dot Energy Engineering by Metalorganic Vapor Phase Epitaxy on Patterned Nonplanar Substrates. Nano Letters, 2007, 7, 1282-1285.	4.5	51
23	Dense uniform arrays of site-controlled quantum dots grown in inverted pyramids. Applied Physics Letters, 2004, 84, 2907-2909.	1.5	50
24	Lactoperoxidase-mediated degradation of single-walled carbon nanotubes in the presence of pulmonary surfactant. Carbon, 2015, 91, 506-517.	5.4	49
25	Direct "Click" Synthesis of Hybrid Bisphosphonate-Hyaluronic Acid Hydrogel in Aqueous Solution for Biomineralization. Chemistry of Materials, 2012, 24, 1690-1697.	3.2	47
26	Structure and photoluminescence of single AlGaAs/GaAs quantum dots grown in inverted tetrahedral pyramids. Applied Physics Letters, 1998, 73, 2322-2324.	1.5	44
27	Electron beam induced deposition of metallic tips and wires for microelectronics applications. Microelectronic Engineering, 2000, 53, 261-264.	1.1	44
28	Microstructural evolution of Au/TiO ₂ nanocomposite films: The influence of Au concentration and thermal annealing. Thin Solid Films, 2015, 580, 77-88.	0.8	43
29	Single-Walled Carbon Nanotubes Inhibit the Cytochrome P450 Enzyme, CYP3A4. Scientific Reports, 2016, 6, 21316.	1.6	43
30	Fabrication and characterization of highly reproducible, high resistance nanogaps made by focused ion beam milling. Nanotechnology, 2007, 18, 285301.	1.3	42
31	Site- and energy-controlled pyramidal quantum dot heterostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 25, 288-297.	1.3	40
32	Alloy Segregation, Quantum Confinement, and Carrier Capture in Self-Ordered Pyramidal Quantum Wires. Nano Letters, 2006, 6, 1036-1041.	4.5	39
33	Reciprocal and real space maps for EMCD experiments. Ultramicroscopy, 2010, 110, 1380-1389.	0.8	38
34	Imprinting layer specific magnetic anisotropies in amorphous multilayers. Journal of Applied Physics, 2009, 106, 023918.	1.1	37
35	The effect of Zn _{1-x} Mg _x O buffer layer deposition temperature on Cu(In,Ga)Se ₂ solar cells: A study of the buffer/absorber interface. Progress in Photovoltaics: Research and Applications, 2009, 17, 115-125.	4.4	36
36	Highly amorphous Fe ₉₀ Zr ₁₀ thin films, and the influence of crystallites on the magnetism. Thin Solid Films, 2010, 519, 404-409.	0.8	36

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37	Local electronic structure information contained in energy-filtered diffraction patterns. <i>Physical Review B</i> , 2011, 84, .	1.1	36
38	Decomposition, diffusion, and growth rate anisotropies in self-limited profiles during metalorganic vapor-phase epitaxy of seeded nanostructures. <i>Physical Review B</i> , 2011, 83, .	1.1	36
39	Site-selective local fluorination of graphene induced by focused ion beam irradiation. <i>Scientific Reports</i> , 2016, 6, 19719.	1.6	36
40	Detection of magnetic circular dichroism with subnanometer convergent electron beams. <i>Physical Review B</i> , 2016, 94, .	1.1	32
41	Broadband Optical Absorption Caused by the Plasmonic Response of Coalesced Au Nanoparticles Embedded in a TiO ₂ Matrix. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16931-16945.	1.5	31
42	Narrow (~ 4 meV) inhomogeneous broadening and its correlation with confinement potential of pyramidal quantum dot arrays. <i>Applied Physics Letters</i> , 2007, 91, 081106.	1.5	29
43	Ultrastrong Translucent Glass Ceramic with Nanocrystalline, Biomimetic Structure. <i>Nano Letters</i> , 2018, 18, 7146-7154.	4.5	29
44	Characterization of short-period Sim Gen superlattices by high-resolution transmission electron microscopy and X-ray diffraction. <i>Thin Solid Films</i> , 1992, 222, 221-226.	0.8	28
45	Using a molten organic conducting material to infiltrate a nanoporous semiconductor film and its use in solid-state dye-sensitized solar cells. <i>Synthetic Metals</i> , 2009, 159, 166-170.	2.1	28
46	Impact of matrix properties on the survival of freeze-dried bacteria. <i>Journal of the Science of Food and Agriculture</i> , 2011, 91, 2518-2528.	1.7	28
47	Thin films composed of gold nanoparticles dispersed in a dielectric matrix: The influence of the host matrix on the optical and mechanical responses. <i>Thin Solid Films</i> , 2015, 596, 8-17.	0.8	28
48	MicroRNA detection based on duplex-specific nuclease-assisted target recycling and gold nanoparticle/graphene oxide nanocomposite-mediated electrocatalytic amplification. <i>Biosensors and Bioelectronics</i> , 2019, 127, 188-193.	5.3	28
49	Electron beam induced deposition of rhodium from the precursor [RhCl(PF ₃) ₂] ₂ : morphology, structure and chemical composition. <i>Journal of Crystal Growth</i> , 2004, 265, 619-626.	0.7	27
50	Quantitative analysis of magnetic spin and orbital moments from an oxidized iron (1 1 0) surface using electron magnetic circular dichroism. <i>Scientific Reports</i> , 2015, 5, 13012.	1.6	27
51	Analytical electron microscopy as a tool for accessing colloid formation process in natural waters. <i>Journal of Microscopy</i> , 2002, 207, 180-190.	0.8	26
52	Biomimetic calcium phosphate coatings on recombinant spider silk fibres. <i>Biomedical Materials (Bristol)</i> , 2010, 5, 045002.	1.7	26
53	Nitric oxide-dependent biodegradation of graphene oxide reduces inflammation in the gastrointestinal tract. <i>Nanoscale</i> , 2020, 12, 16730-16737.	2.8	26
54	High internal quantum efficiency, narrow linewidth InGaAs/GaAs/AlGaAs quantum wire light-emitting diodes. <i>Applied Physics Letters</i> , 2002, 81, 2839-2841.	1.5	25

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55	Experimental and theoretical studies on stainless steel transfer onto a TiN-coated cutting tool. <i>Acta Materialia</i> , 2011, 59, 68-74.	3.8	25
56	Carrier transport and luminescence in inverted-pyramid quantum structures. <i>Applied Physics Letters</i> , 2000, 77, 3923-3925.	1.5	24
57	Real-Space Transmission Electron Microscopy Investigations of Attachment of Functionalized Magnetic Nanoparticles to DNA-Coils Acting as a Biosensor. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13255-13262.	1.2	24
58	Influence of plural scattering on the quantitative determination of spin and orbital moments in electron magnetic chiral dichroism measurements. <i>Physical Review B</i> , 2011, 83, .	1.1	24
59	Superior adhesion of graphene nanoscrolls. <i>Communications Physics</i> , 2018, 1, .	2.0	24
60	Luminescent CeO ₂ :Eu ³⁺ nanocrystals for robust in situ H ₂ O ₂ real-time detection in bacterial cell cultures. <i>Biosensors and Bioelectronics</i> , 2019, 132, 286-293.	5.3	24
61	Site-controlled quantum dots grown in inverted pyramids for photonic crystal applications. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 23, 476-481.	1.3	23
62	Fabrication of reproducible sub-5-nm nanogaps by a focused ion beam and observation of Fowler-Nordheim tunneling. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	23
63	Spatial Mapping of Elemental Distributions in Polypyrrole-Cellulose Nanofibers using Energy-Filtered Transmission Electron Microscopy. <i>Journal of Physical Chemistry B</i> , 2010, 114, 13644-13649.	1.2	22
64	Formation and NMR Spectroscopy of Thiol Protected Alkanedithiol-Coated Gold Nanoparticles and Their Usage in Molecular Charge Transport Junctions. <i>Langmuir</i> , 2011, 27, 9057-9067.	1.6	22
65	Exponentially decaying magnetic coupling in sputtered thin film FeNi/Cu/FeCo trilayers. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	22
66	Polymer fracture and deformation during nanosectioning in an ultramicrotome. <i>Engineering Fracture Mechanics</i> , 2017, 182, 595-606.	2.0	22
67	White-Light Photoassisted Covalent Functionalization of Graphene Using 2-Propanol. <i>Small Methods</i> , 2017, 1, 1700214.	4.6	22
68	Enhancement of the binding energy of charged excitons in disordered quantum wires. <i>Physical Review B</i> , 2005, 71, .	1.1	21
69	Nano-fabrication of molecular electronic junctions by targeted modification of metal-molecule bonds. <i>Scientific Reports</i> , 2015, 5, 14431.	1.6	21
70	Silicon-Nanographite Aerogel-Based Anodes for High Performance Lithium Ion Batteries. <i>Scientific Reports</i> , 2019, 9, 14621.	1.6	21
71	Influence of strain and quantum confinement on the optical properties of InGaAs/GaAs V-groove quantum wires. <i>Journal of Applied Physics</i> , 2000, 88, 141-147.	1.1	20
72	Focused Electron Beam Induced Deposition of Gold and Rhodium. <i>Materials Research Society Symposia Proceedings</i> , 2000, 624, 171.	0.1	20

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73	Assessment of a nanoparticle bridge platform for molecular electronics measurements. <i>Nanotechnology</i> , 2010, 21, 435204.	1.3	20
74	Two-dimensional quantum-confined Stark effect in V-groove quantum wires: Excited state spectroscopy and theory. <i>Applied Physics Letters</i> , 1999, 74, 2334-2336.	1.5	19
75	Asymmetry of the two-beam geometry in EMCD experiments. <i>Journal of Microscopy</i> , 2010, 237, 465-468.	0.8	19
76	Biom mineralization on single crystalline rutile: the modulated growth of hydroxyapatite by fibronectin in a simulated body fluid. <i>RSC Advances</i> , 2016, 6, 35507-35516.	1.7	19
77	Rate effects on localized shear deformation during nanosectioning of an amorphous thermoplastic polymer. <i>International Journal of Solids and Structures</i> , 2017, 129, 40-48.	1.3	18
78	Direct writing of lateral fluorographene nanopatterns with tunable bandgaps and its application in new generation of moiré superlattice. <i>Applied Physics Reviews</i> , 2020, 7, .	5.5	18
79	Carrier quantum confinement in self-ordered Al _x Ga _{1-x} V-groove quantum wells. <i>Physical Review B</i> , 1997, 56, R7096-R7099.	1.1	17
80	Effect of indium segregation on optical properties of V-groove InGaAs/GaAs strained quantum wires. <i>Applied Physics Letters</i> , 1999, 75, 3300-3302.	1.5	17
81	Quantitative imaging of InGaAs/GaAs layers using transmission electron microscopy methods: characterization of stresses and chemical composition. <i>Journal of Crystal Growth</i> , 2002, 237-239, 1471-1475.	0.7	16
82	Spin and orbital moment in amorphous $\text{Co}_{1-x}\text{Mn}_x$. <i>Physical Review B</i> , 2009, 80, .	1.1	16
83	Chemically and morphologically distinct grain boundaries in Ge-doped Cu ₂ ZnSnSe ₄ solar cells revealed with STEM-EELS. <i>Materials and Design</i> , 2017, 122, 102-109.	3.3	16
84	Cathodoluminescence intensity and dislocation contrast evolutions under electron beam excitation in epitaxial GaN laterally overgrown on (0001) sapphire. <i>Physica B: Condensed Matter</i> , 1999, 273-274, 148-151.	1.3	15
85	Cathodoluminescence of epitaxial GaN laterally overgrown on (0001) sapphire substrate. Time evolution with low energy electron beam. <i>Journal of Applied Physics</i> , 2001, 89, 7966-7972.	1.1	15
86	Cooperative Gold Nanoparticle Stabilization by Acetylenic Phosphaalkenes. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10634-10638.	7.2	15
87	Towards sub-nanometer real-space observation of spin and orbital magnetism at the Fe/MgO interface. <i>Scientific Reports</i> , 2017, 7, 44802.	1.6	15
88	Observation of photoinduced intersubband transitions in one-dimensional semiconductor quantum wires. <i>Physical Review B</i> , 2000, 62, 9935-9938.	1.1	14
89	Simulation of magnetic circular dichroism in the electron microscope. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 474005.	1.3	14
90	Identification of vibrational signatures from short chains of interlinked molecule "nanoparticle junctions obtained by inelastic electron tunnelling spectroscopy. <i>Nanoscale</i> , 2013, 5, 4673.	2.8	14

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91	Crystal perfection by strain engineering: The case of Fe/V (001). Thin Solid Films, 2017, 636, 608-614.	0.8	14
92	Towards Functional Silicon Nitride Coatings for Joint Replacements. Coatings, 2019, 9, 73.	1.2	14
93	Quantitative EMCD by use of a double aperture for simultaneous acquisition of EELS. Ultramicroscopy, 2019, 196, 192-196.	0.8	14
94	Optimization of the metamorphic growth of GaAs for long wavelength VCSELs. Journal of Crystal Growth, 1999, 201-202, 1015-1019.	0.7	13
95	Focused ion beam fabrication procedures of x-ray micro fresnel zone plates. Journal of Micromechanics and Microengineering, 2007, 17, 617-622.	1.5	13
96	Morphology of amorphous Fe ₉₁ Zr ₉ Al ₂ O ₃ multilayers: Dewetting and crystallization. Physical Review B, 2007, 75, .	1.1	13
97	Magnetic and transport properties of Ni ₈₁ Fe ₁₉ Al ₂ O ₃ granular multilayers approaching the superparamagnetic limit. Journal of Applied Physics, 2007, 101, 073907.	1.1	13
98	A Simple Transmission Electron Microscopy Method for Fast Thickness Characterization of Suspended Graphene and Graphite Flakes. Microscopy and Microanalysis, 2016, 22, 250-256.	0.2	13
99	Direct Observation of New Transitions in the Absorption Spectra of a V-Groove Quantum Wire Waveguide. Physica Status Solidi A, 2000, 178, 233-237.	1.7	12
100	Quantitative magnetic measurements with transmission electron microscope. Journal of Magnetism and Magnetic Materials, 2010, 322, 1478-1480.	1.0	12
101	The usage of data compression for the background estimation of electron energy loss spectra. Ultramicroscopy, 2017, 181, 117-122.	0.8	12
102	A sub 20 nm metal-conjugated molecule junction acting as a nitrogen dioxide sensor. Nanoscale, 2019, 11, 6571-6575.	2.8	12
103	Tailoring ultra-fast charge transfer in MoS ₂ . Physical Chemistry Chemical Physics, 2020, 22, 10335-10342.	1.3	12
104	Biodegradation of graphdiyne oxide in classically activated (M1) macrophages modulates cytokine production. Nanoscale, 2021, 13, 13072-13084.	2.8	12
105	Organometallic chemical vapor deposition of V-groove InGaAs/GaAs quantum wires incorporated in planar Bragg microcavities. Journal of Crystal Growth, 1999, 207, 161-173.	0.7	11
106	Strain mapping of V-groove InGaAs/GaAs strained quantum wires using cross-sectional Atomic Force Microscopy. Applied Surface Science, 2000, 166, 290-294.	3.1	11
107	Patterning of confined-state energies in site-controlled semiconductor quantum dots. Applied Physics Letters, 2005, 86, 243105.	1.5	11
108	Low-temperature synthesis of photoconducting CdTe nanotetrapods. Journal of Materials Chemistry, 2010, 20, 1208-1214.	6.7	11

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109	Control of junction resistances in molecular electronic devices fabricated by FIB. <i>Microelectronic Engineering</i> , 2011, 88, 2629-2631.	1.1	11
110	Enabling measurements of low-conductance single molecules using gold nanoelectrodes. <i>Nanotechnology</i> , 2011, 22, 125707.	1.3	11
111	Size-dependent elasticity of gold nanoparticle measured by atomic force microscope based nanoindentation. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	11
112	EDS and EELS using a TEM-FEG microscope. <i>Ultramicroscopy</i> , 1995, 58, 35-41.	0.8	10
113	Structural and magnetic properties of multilayers. <i>Journal of Crystal Growth</i> , 2010, 312, 580-586.	0.7	10
114	Formulations for Freeze-drying of Bacteria and Their Influence on Cell Survival. <i>Journal of Visualized Experiments</i> , 2013, , .	0.2	10
115	Photoluminescent Semiconducting Graphene Nanoribbons via Longitudinally Unzipping Single-Walled Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 52892-52900.	4.0	10
116	Localization of magnetic circular dichroic spectra in transmission electron microscopy experiments with atomic plane resolution. <i>Physical Review B</i> , 2017, 95, .	1.1	9
117	Comparison of test methods estimating the stiffness of ultrathin coatings. <i>Journal of Coatings Technology Research</i> , 2018, 15, 743-752.	1.2	9
118	Optimization and analysis of pyrene-maltose functionalized graphene surfaces for Con A detection. <i>Applied Surface Science</i> , 2020, 510, 145409.	3.1	9
119	Theoretical and experimental limits of the analysis of III/V semiconductors using EELS. <i>Micron</i> , 2000, 31, 411-427.	1.1	8
120	Electroluminescence and photoluminescence excitation study of asymmetric coupled GaAs \cdot Al \times Ga $1\hat{x}$ As V-groove quantum wires. <i>Physical Review B</i> , 2004, 70, .	1.1	8
121	Localization of excitons in disordered quantum wires probed by single-photon correlation spectroscopy. <i>Applied Physics Letters</i> , 2004, 85, 5715-5717.	1.5	8
122	Polarization-resolved optical absorption in single V-groove quantum wires. <i>Applied Physics Letters</i> , 2006, 89, 191111.	1.5	8
123	Structural coherence and layer perfection in Fe/MgO multilayers. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 055212.	0.7	8
124	Silicon nanocrystals: Novel synthesis routes for photovoltaic applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 649-657.	0.8	8
125	Nanocrystal size distribution analysis from transmission electron microscopy images. <i>Nanoscale</i> , 2015, 7, 20593-20606.	2.8	8
126	Designing sterically demanding thiolate coated AuNPs for electrical characterization of BPDT in a NP \hat{e} “molecule \hat{e} “ nanoelectrode platform. <i>Molecular Systems Design and Engineering</i> , 2017, 2, 133-139.	1.7	8

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127	A general strategy for template-free and low-cost synthesis of inorganic hollow spheres. Powder Technology, 2017, 319, 163-171.	2.1	8
128	The Effect of Coating Density on Functional Properties of SiN _x Coated Implants. Materials, 2019, 12, 3370.	1.3	8
129	High-temperature decomposition of Cu ₂ BaSnS ₄ with Sn loss reveals newly identified compound Cu ₂ Ba ₃ Sn ₂ S ₈ . Journal of Materials Chemistry A, 2020, 8, 11346-11353.	5.2	8
130	Strained V-groove quantum wires in multidimensional microcavities. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 74, 158-164.	1.7	7
131	Defect diffusion and strain relaxation in epitaxial GaN laterally overgrown on (0001) sapphire under low energy electron beam irradiation. Journal of Physics Condensed Matter, 2000, 12, 10271-10278.	0.7	7
132	Strongly reduced exciton transfer between parallel quantum wires. Applied Physics Letters, 2007, 90, 101108.	1.5	7
133	Silicon nanocrystals on amorphous silicon carbide alloy thin films: Control of film properties and nanocrystals growth. Thin Solid Films, 2012, 522, 136-144.	0.8	7
134	Influence of the Rear Interface on Composition and Photoluminescence Yield of CZTSSe Absorbers: A Case for an Al ₂ O ₃ Intermediate Layer. ACS Applied Materials & Interfaces, 2021, 13, 19487-19496.	4.0	7
135	Atomic resolution energy-loss magnetic chiral dichroism measurements enabled by patterned apertures. Physical Review Research, 2020, 2, .	1.3	7
136	Mechanisms of self-ordering of nanostructures in nonplanar OMCVD growth. Journal of Crystal Growth, 1998, 195, 596-602.	0.7	6
137	Stability optimisation of molecular electronic devices based on "nanoelectrode" nanoparticle bridge platform in air and different storage liquids. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	6
138	Shrinking of silicon nanocrystals embedded in an amorphous silicon oxide matrix during rapid thermal annealing in a forming gas atmosphere. Nanotechnology, 2016, 27, 365601.	1.3	6
139	Template-free synthesis of phosphate-based spheres via modified supersaturated phosphate buffer solutions. Journal of Materials Science: Materials in Medicine, 2017, 28, 99.	1.7	6
140	Composition, structure and magnetic properties of ultra-thin Fe/Ni multilayers sputter deposited on epitaxial Cu/Si(001). Thin Solid Films, 2018, 646, 117-125.	0.8	6
141	Case study of a green nanoporous material from synthesis to commercialisation: Quartzene®. Current Opinion in Green and Sustainable Chemistry, 2018, 12, 101-109.	3.2	6
142	Growth and Investigation of Ni/Ti Multilayers. Materials Science Forum, 1993, 126-128, 615-618.	0.3	5
143	<title>Thin films for neutron optics</title>. , 1992, , .		4
144	Growth and optical characterization of dense arrays of site-controlled quantum dots grown in inverted pyramids. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 21, 193-198.	1.3	4

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145	Electron tomography analysis of 3D interfacial nanostructures appearing in annealed Si rich SiC films. <i>Nanoscale</i> , 2017, 9, 6703-6710.	2.8	4
146	Cryo-electron Microscopy Specimen Preparation By Means Of a Focused Ion Beam. <i>Journal of Visualized Experiments</i> , 2014, , e51463.	0.2	4
147	EMCD in the TEM – Optimization of signal acquisition and data evaluation. <i>Microscopy and Microanalysis</i> , 2008, 14, 1148-1149.	0.2	3
148	Instrumental developments for in situ breakdown experiments inside a scanning electron microscope. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 657, 122-125.	0.7	3
149	Indium tin oxide–silicon nanocrystal nanocomposite grown by aerosol assisted chemical vapour deposition. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 666-672.	1.1	3
150	Massive Ta diffusion observed in Cu thin films but not in Ag counterparts. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016, 34, .	0.6	3
151	Nanomolecular electronic devices based on AuNP molecule nanoelectrodes using molecular place-exchange process. <i>Nanotechnology</i> , 2020, 31, 225207.	1.3	3
152	InGaAs/GaAs strained quantum wires grown by OMCVD on corrugated substrates. , 0, , .		2
153	Influence of long-range substrate roughness on disorder in V-groove quantum wire structures. <i>Journal of Applied Physics</i> , 2006, 100, 123509.	1.1	2
154	Nanoparticle Bridges for Studying Electrical Properties of Organic Molecules. , 2012, 906, 535-546.		2
155	Surface defect passivation by a thin metallic barrier for Cu(In _x Ga _{1-x})Se ₂ co-evaporation on Cr-steel substrates. <i>Thin Solid Films</i> , 2016, 619, 220-226.	0.8	2
156	Enhanced gas sensing performance of graphene/ZnS-CdS hetero-nanowires gas sensor synthesized by Langmuir-Blodgett self-assembly method. <i>Journal of Physics: Conference Series</i> , 2017, 922, 012023.	0.3	2
157	Effect of nanosectioning on surface features and stiffness of an amorphous glassy polymer. <i>Polymer Engineering and Science</i> , 2018, 58, 1849-1857.	1.5	2
158	3D analysis of human islet amyloid polypeptide crystalline structures in <i>Drosophila melanogaster</i> . <i>PLoS ONE</i> , 2019, 14, e0223456.	1.1	2
159	Simultaneous mapping of EMCD signals and crystal orientations in a transmission electron microscope. <i>Scientific Reports</i> , 2021, 11, 2180.	1.6	2
160	Fabrication of BP2T functionalized graphene via non-covalent – – stacking interactions for enhanced ammonia detection. <i>RSC Advances</i> , 2021, 11, 35982-35987.	1.7	2
161	Electron-Beam-Induced Fluorination Cycle for Long-Term Preservation of Graphene under Ambient Conditions. <i>Nanomaterials</i> , 2022, 12, 383.	1.9	2
162	Analysis of molecular ligand functionalization process in nano-molecular electronic devices containing densely packed nano-particle functionalization shells. <i>Nanotechnology</i> , 2022, 33, 255706.	1.3	2

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