

Marcel A Verheijen

List of Publications by Year in descending order

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266
papers

12,289
citations

20759

60
h-index

31759

101
g-index

278
all docs

278
docs citations

278
times ranked

13869
citing authors

#	ARTICLE	IF	CITATIONS
1	Twinning superlattices in indium phosphide nanowires. <i>Nature</i> , 2008, 456, 369-372.	13.7	625
2	Bright single-photon sources in bottom-up tailored nanowires. <i>Nature Communications</i> , 2012, 3, 737.	5.8	365
3	Single Quantum Dot Nanowire LEDs. <i>Nano Letters</i> , 2007, 7, 367-371.	4.5	349
4	Direct Band Gap Wurtzite Gallium Phosphide Nanowires. <i>Nano Letters</i> , 2013, 13, 1559-1563.	4.5	262
5	High-efficiency humidity-stable planar perovskite solar cells based on atomic layer architecture. <i>Energy and Environmental Science</i> , 2017, 10, 91-100.	15.6	231
6	Direct-bandgap emission from hexagonal Ge and SiGe alloys. <i>Nature</i> , 2020, 580, 205-209.	13.7	231
7	Difference between Blocking and Néel Temperatures in the Exchange Biased Fe ₃ O ₄ /CoO System. <i>Physical Review Letters</i> , 2000, 84, 6102-6105.	2.9	226
8	The structure of different phases of pure C70 crystals. <i>Chemical Physics</i> , 1992, 166, 287-297.	0.9	195
9	Waveguide Nanowire Superconducting Single-Photon Detectors Fabricated on GaAs and the Study of Their Optical Properties. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015, 21, 1-10.	1.9	188
10	Growth Kinetics of Heterostructured GaP/GaAs Nanowires. <i>Journal of the American Chemical Society</i> , 2006, 128, 1353-1359.	6.6	182
11	Epitaxial growth of InP nanowires on germanium. <i>Nature Materials</i> , 2004, 3, 769-773.	13.3	178
12	21.6%-Efficient Monolithic Perovskite/Cu(In,Ga)Se ₂ Tandem Solar Cells with Thin Conformal Hole Transport Layers for Integration on Rough Bottom Cell Surfaces. <i>ACS Energy Letters</i> , 2019, 4, 583-590.	8.8	155
13	Controlling the fixed charge and passivation properties of Si(100)/Al ₂ O ₃ interfaces using ultrathin SiO ₂ interlayers synthesized by atomic layer deposition. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	150
14	Atomic layer deposition for perovskite solar cells: research status, opportunities and challenges. <i>Sustainable Energy and Fuels</i> , 2017, 1, 30-55.	2.5	150
15	Interface formation of two- and three-dimensionally bonded materials in the case of GeTe/Sb ₂ Te ₃ superlattices. <i>Nanoscale</i> , 2015, 7, 19136-19143.	2.8	145
16	Supported Core/Shell Bimetallic Nanoparticles Synthesis by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2012, 24, 2973-2977.	3.2	142
17	Hexagonal Silicon Realized. <i>Nano Letters</i> , 2015, 15, 5855-5860.	4.5	142
18	Critical review of the current status of thickness measurements for ultrathin SiO ₂ on Si Part V: Results of a CCQM pilot study. <i>Surface and Interface Analysis</i> , 2004, 36, 1269-1303.	0.8	138

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19	Synthesis of InP Nanotubes. <i>Journal of the American Chemical Society</i> , 2003, 125, 3440-3441.	6.6	134
20	Efficiency Enhancement of InP Nanowire Solar Cells by Surface Cleaning. <i>Nano Letters</i> , 2013, 13, 4113-4117.	4.5	134
21	Island growth in the atomic layer deposition of zirconium oxide and aluminum oxide on hydrogen-terminated silicon: Growth mode modeling and transmission electron microscopy. <i>Journal of Applied Physics</i> , 2004, 96, 4878-4889.	1.1	132
22	Ultrahigh Capacitance Density for Multiple ALD-Grown MIM Capacitor Stacks in 3-D Silicon. <i>IEEE Electron Device Letters</i> , 2008, 29, 740-742.	2.2	130
23	Influence of Oxygen Exposure on the Nucleation of Platinum Atomic Layer Deposition: Consequences for Film Growth, Nanopatterning, and Nanoparticle Synthesis. <i>Chemistry of Materials</i> , 2013, 25, 1905-1911.	3.2	123
24	Efficient water reduction with gallium phosphide nanowires. <i>Nature Communications</i> , 2015, 6, 7824.	5.8	123
25	Position-controlled epitaxial III-V nanowires on silicon. <i>Nanotechnology</i> , 2006, 17, S271-S275.	1.3	116
26	Formation and electronic properties of InSb nanocrosses. <i>Nature Nanotechnology</i> , 2013, 8, 859-864.	15.6	115
27	From InSb Nanowires to Nanocubes: Looking for the Sweet Spot. <i>Nano Letters</i> , 2012, 12, 1794-1798.	4.5	109
28	Structural Characterization of Mesoporous Organosilica Films for Ultralow-k Dielectrics. <i>Journal of Physical Chemistry B</i> , 2003, 107, 4280-4289.	1.2	107
29	Reversible Switching of InP Nanowire Growth Direction by Catalyst Engineering. <i>Nano Letters</i> , 2013, 13, 3802-3806.	4.5	107
30	Photoelectrochemical Hydrogen Production on InP Nanowire Arrays with Molybdenum Sulfide Electrocatalysts. <i>Nano Letters</i> , 2014, 14, 3715-3719.	4.5	106
31	Asymmetric magnetic bubble expansion under in-plane field in Pt/Co/Pt: Effect of interface engineering. <i>Physical Review B</i> , 2015, 91, .	1.1	106
32	Growth and optical properties of axial hybrid III-V/silicon nanowires. <i>Nature Communications</i> , 2012, 3, 1266.	5.8	105
33	Epitaxial Growth of III-V Nanowires on Group IV Substrates. <i>MRS Bulletin</i> , 2007, 32, 117-122.	1.7	95
34	Crystal Structure Transfer in Core/Shell Nanowires. <i>Nano Letters</i> , 2011, 11, 1690-1694.	4.5	93
35	Surface passivated InAs/InP core/shell nanowires. <i>Semiconductor Science and Technology</i> , 2010, 25, 024011.	1.0	92
36	The Role of Surface Energies and Chemical Potential during Nanowire Growth. <i>Nano Letters</i> , 2011, 11, 1259-1264.	4.5	92

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37	Low-temperature plasma-enhanced atomic layer deposition of 2-D MoS ₂ : large area, thickness control and tuneable morphology. <i>Nanoscale</i> , 2018, 10, 8615-8627.	2.8	90
38	Low-Temperature Plasma-Assisted Atomic-Layer-Deposited SnO ₂ as an Electron Transport Layer in Planar Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 30367-30378.	4.0	88
39	Three-Dimensional Morphology of GaP [~] GaAs Nanowires Revealed by Transmission Electron Microscopy Tomography. <i>Nano Letters</i> , 2007, 7, 3051-3055.	4.5	87
40	Atomic layer deposition of Pd and Pt nanoparticles for catalysis: on the mechanisms of nanoparticle formation. <i>Nanotechnology</i> , 2016, 27, 034001.	1.3	86
41	Tuning Material Properties of Oxides and Nitrides by Substrate Biasing during Plasma-Enhanced Atomic Layer Deposition on Planar and 3D Substrate Topographies. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 13158-13180.	4.0	85
42	New orientationally ordered low-temperature superstructure in high-purity C ₆₀ . <i>Physical Review Letters</i> , 1992, 69, 1065-1068.	2.9	80
43	Plasma-assisted atomic layer deposition of nickel oxide as hole transport layer for hybrid perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2019, 7, 12532-12543.	2.7	80
44	Selective Excitation and Detection of Spin States in a Single Nanowire Quantum Dot. <i>Nano Letters</i> , 2009, 9, 1989-1993.	4.5	79
45	Vicinal Si(111) surfaces studied by optical second-harmonic generation: Step-induced anisotropy and surface-bulk discrimination. <i>Physical Review B</i> , 1990, 42, 9263-9266.	1.1	77
46	Enhanced Self-Assembled Monolayer Surface Coverage by ALD NiO in p-i-n Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2166-2176.	4.0	77
47	Structural phase transitions in C ₇₀ . <i>Europhysics Letters</i> , 1993, 21, 329-334.	0.7	72
48	Growth and Optical Properties of Direct Band Gap Ge/Ge _{0.87} Sn _{0.13} Core/Shell Nanowire Arrays. <i>Nano Letters</i> , 2017, 17, 1538-1544.	4.5	72
49	Dynamic reconfiguration of van der Waals gaps within GeTe [~] Sb ₂ Te ₃ based superlattices. <i>Nanoscale</i> , 2017, 9, 8774-8780.	2.8	71
50	Area-Selective Deposition of Ruthenium by Combining Atomic Layer Deposition and Selective Etching. <i>Chemistry of Materials</i> , 2019, 31, 3878-3882.	3.2	71
51	Remote p-Doping of InAs Nanowires. <i>Nano Letters</i> , 2007, 7, 1144-1148.	4.5	70
52	Generic nano-imprint process for fabrication of nanowire arrays. <i>Nanotechnology</i> , 2010, 21, 065305.	1.3	70
53	Effective Surface Passivation of InP Nanowires by Atomic-Layer-Deposited Al ₂ O ₃ with PO _x Interlayer. <i>Nano Letters</i> , 2017, 17, 6287-6294.	4.5	68
54	Electrical transport and Al doping efficiency in nanoscale ZnO films prepared by atomic layer deposition. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	67

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55	Uniform Atomic Layer Deposition of Al ₂ O ₃ on Graphene by Reversible Hydrogen Plasma Functionalization. <i>Chemistry of Materials</i> , 2017, 29, 2090-2100.	3.2	64
56	Atomic-layer deposited Nb ₂ O ₅ as transparent passivating electron contact for c-Si solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018, 184, 98-104.	3.0	64
57	Revisiting the Local Structure in Ge-Sb-Te based Chalcogenide Superlattices. <i>Scientific Reports</i> , 2016, 6, 22353.	1.6	63
58	Position-controlled [100] InP nanowire arrays. <i>Applied Physics Letters</i> , 2012, 100, 053107.	1.5	62
59	Rationally Designed Single-Crystalline Nanowire Networks. <i>Advanced Materials</i> , 2014, 26, 4875-4879.	11.1	62
60	Atomic Layer Deposition of High-Purity Palladium Films from Pd(hfac) ₂ and H ₂ and O ₂ Plasmas. <i>Journal of Physical Chemistry C</i> , 2014, 118, 8702-8711.	1.5	62
61	Area-Selective Atomic Layer Deposition of ZnO by Area Activation Using Electron Beam-Induced Deposition. <i>Chemistry of Materials</i> , 2019, 31, 1250-1257.	3.2	62
62	Interface study on heterostructured GaP/GaAs nanowires. <i>Nanotechnology</i> , 2006, 17, 4010-4013.	1.3	60
63	Sub-nanometer dimensions control of core/shell nanoparticles prepared by atomic layer deposition. <i>Nanotechnology</i> , 2015, 26, 094002.	1.3	60
64	High optical quality single crystal phase wurtzite and zincblende InP nanowires. <i>Nanotechnology</i> , 2013, 24, 115705.	1.3	59
65	Single-Crystalline Hexagonal Silicon-Germanium. <i>Nano Letters</i> , 2017, 17, 85-90.	4.5	59
66	Lattice vibrations in crystalline C ₇₀ . <i>Physical Review B</i> , 1993, 47, 7610-7613.	1.1	58
67	Direct-Write Atomic Layer Deposition of High-Quality Pt Nanostructures: Selective Growth Conditions and Seed Layer Requirements. <i>Journal of Physical Chemistry C</i> , 2013, 117, 10788-10798.	1.5	58
68	Hexagonal close-packed C ₆₀ . <i>Chemical Physics Letters</i> , 1994, 219, 469-472.	1.2	57
69	Edge-Site Nanoengineering of WS ₂ by Low-Temperature Plasma-Enhanced Atomic Layer Deposition for Electrocatalytic Hydrogen Evolution. <i>Chemistry of Materials</i> , 2019, 31, 5104-5115.	3.2	57
70	Low-temperature structure of solid C ₇₀ . <i>Chemical Physics Letters</i> , 1994, 223, 323-328.	1.2	56
71	Tuning structural motifs and alloying of bulk immiscible Mo-Cu bimetallic nanoparticles by gas-phase synthesis. <i>Nanoscale</i> , 2013, 5, 5375.	2.8	56
72	Exploring Crystal Phase Switching in GaP Nanowires. <i>Nano Letters</i> , 2015, 15, 8062-8069.	4.5	55

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73	Atomic stacking and van-der-Waals bonding in GeTe ₂ /Te ₃ superlattices. Journal of Materials Research, 2016, 31, 3115-3124.	1.2	53
74	Physical and Chemical Defects in WO ₃ Thin Films and Their Impact on Photoelectrochemical Water Splitting. ACS Applied Energy Materials, 2018, 1, 5887-5895.	2.5	53
75	Electrocatalytic activity of atomic layer deposited Pt/Ru catalysts onto N-doped carbon nanotubes. Journal of Catalysis, 2014, 311, 481-486.	3.1	51
76	Boosting Hole Mobility in Coherently Strained [110]-Oriented Ge/Si Core/Shell Nanowires. Nano Letters, 2017, 17, 2259-2264.	4.5	51
77	Parity-preserving and magnetic field-resilient superconductivity in InSb nanowires with Sn shells. Science, 2021, 372, 508-511.	6.0	50
78	Explanation for the leakage current in polycrystalline-silicon thin-film transistors made by Ni-silicide mediated crystallization. Applied Physics Letters, 2002, 81, 3404-3406.	1.5	49
79	Atomic layer deposition of B-doped ZnO using triisopropyl borate as the boron precursor and comparison with Al-doped ZnO. Journal of Materials Chemistry C, 2015, 3, 3095-3107.	2.7	48
80	Boosting the Performance of WO ₃ /Si Heterostructures for Photoelectrochemical Water Splitting: from the Role of Si to Interface Engineering. Advanced Energy Materials, 2019, 9, 1900940.	10.2	48
81	Selective-area chemical beam epitaxy of in-plane InAs one-dimensional channels grown on InP(001), InP(111)B, and InP(011) surfaces. Physical Review Materials, 2019, 3, .	0.9	48
82	Large area, patterned growth of 2D MoS ₂ and lateral MoS ₂ /WS ₂ heterostructures for nano- and opto-electronic applications. Nanotechnology, 2020, 31, 255603.	1.3	46
83	Electron emission from individual nitrogen-doped multi-walled carbon nanotubes. Chemical Physics Letters, 2004, 396, 126-130.	1.2	45
84	Area-Selective Atomic Layer Deposition of Two-Dimensional WS ₂ Nanolayers. , 2020, 2, 511-518.		45
85	Improved Pd/CeO ₂ Catalysts for Low-Temperature NO Reduction: Activation of CeO ₂ Lattice Oxygen by Fe Doping. ACS Catalysis, 2021, 11, 5614-5627.	5.5	44
86	Area-Selective Atomic Layer Deposition of TiN Using Aromatic Inhibitor Molecules for Metal/Dielectric Selectivity. Chemistry of Materials, 2020, 32, 7788-7795.	3.2	42
87	Zinc Incorporation via the Vapor-Liquid-Solid Mechanism into InP Nanowires. Journal of the American Chemical Society, 2009, 131, 4578-4579.	6.6	41
88	Paired Twins and {112̄} Morphology in GaP Nanowires. Nano Letters, 2010, 10, 2349-2356.	4.5	41
89	Encapsulation method for atom probe tomography analysis of nanoparticles. Ultramicroscopy, 2015, 159, 420-426.	0.8	40
90	Atomic layer deposition of high-mobility hydrogen-doped zinc oxide. Solar Energy Materials and Solar Cells, 2017, 173, 111-119.	3.0	40

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91	Chemical Analysis of the Interface between Hybrid Organic-Inorganic Perovskite and Atomic Layer Deposited Al ₂ O ₃ . ACS Applied Materials & Interfaces, 2019, 11, 5526-5535.	4.0	40
92	Real time in situ spectroscopic ellipsometry of the growth and plasmonic properties of Au nanoparticles on SiO ₂ . Nano Research, 2012, 5, 513-520.	5.8	37
93	In-plane selective area InSb-Al nanowire quantum networks. Communications Physics, 2020, 3, .	2.0	37
94	Ultrahigh throughput plasma processing of free standing silicon nanocrystals with lognormal size distribution. Journal of Applied Physics, 2013, 113, .	1.1	36
95	High Mobility Stemless InSb Nanowires. Nano Letters, 2019, 19, 3575-3582.	4.5	36
96	Low-temperature diffusion of high-concentration phosphorus in silicon, a preferential movement toward the surface. Applied Physics Letters, 2005, 86, 081917.	1.5	35
97	Detection of the Presence of Gold Nanoparticles in Organs by Transmission Electron Microscopy. Materials, 2010, 3, 4681-4694.	1.3	35
98	Low-Temperature Phase-Controlled Synthesis of Titanium Di- and Tri-sulfide by Atomic Layer Deposition. Chemistry of Materials, 2019, 31, 9354-9362.	3.2	35
99	Orientation-Dependent Optical Polarization Properties of Single Quantum Dots in Nanowires. Small, 2009, 5, 2134-2138.	5.2	33
100	Understanding the Film Formation Kinetics of Sequential Deposited Narrow-Bandgap Pb-Sn Hybrid Perovskite Films. Advanced Energy Materials, 2020, 10, 2000566.	10.2	33
101	Towards the implementation of atomic layer deposited In ₂ O ₃ :H in silicon heterojunction solar cells. Solar Energy Materials and Solar Cells, 2017, 163, 43-50.	3.0	32
102	Atomic layer deposition of HfO ₂ using HfCp(NMe ₂) ₃ and O ₂ plasma. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	0.9	32
103	Low resistivity HfN _x grown by plasma-assisted ALD with external rf substrate biasing. Journal of Materials Chemistry C, 2018, 6, 3917-3926.	2.7	31
104	Phonon Engineering in Twinning Superlattice Nanowires. Nano Letters, 2019, 19, 4702-4711.	4.5	31
105	Electrically conductive coatings consisting of Ag-decorated cellulose nanocrystals. Cellulose, 2017, 24, 2191-2204.	2.4	30
106	Isotropic Atomic Layer Etching of ZnO Using Acetylacetone and O ₂ Plasma. ACS Applied Materials & Interfaces, 2018, 10, 38588-38595.	4.0	30
107	Ballistic Phonons in Ultrathin Nanowires. Nano Letters, 2020, 20, 2703-2709.	4.5	30
108	HfSiO ₄ Dielectric Layers Deposited by ALD Using HfCl ₄ and NH ₂ (CH ₂) ₃ Si(OC ₂ H ₅) ₃ Precursors. Journal of the Electrochemical Society, 2004, 151, C716.	1.3	28

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109	Atomic Layer Deposition of Highly Transparent Platinum Counter Electrodes for Metal/Polymer Flexible Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014, 4, 1300831.	10.2	28
110	Dopant Distribution in Atomic Layer Deposited ZnO:Al Films Visualized by Transmission Electron Microscopy and Atom Probe Tomography. <i>Chemistry of Materials</i> , 2018, 30, 1209-1217.	3.2	28
111	Critical strain for Sn incorporation into spontaneously graded Ge/GeSn core/shell nanowires. <i>Nanoscale</i> , 2018, 10, 7250-7256.	2.8	28
112	Sunlight-Fueled, Low-Temperature Ru-Catalyzed Conversion of CO ₂ and H ₂ to CH ₄ with a High Photon-to-Methane Efficiency. <i>ACS Omega</i> , 2019, 4, 7369-7377.	1.6	28
113	Atomic-layer-deposited Al-doped zinc oxide as a passivating conductive contacting layer for n+-doped surfaces in silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2021, 233, 111386.	3.0	28
114	In situ transmission electron microscopy analysis of electron beam induced crystallization of amorphous marks in phase-change materials. <i>Journal of Applied Physics</i> , 2004, 96, 3193-3198.	1.1	27
115	On the solid phase crystallization of In ₂ O ₃ :H transparent conductive oxide films prepared by atomic layer deposition. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	27
116	Crystal Phase Quantum Well Emission with Digital Control. <i>Nano Letters</i> , 2017, 17, 6062-6068.	4.5	27
117	Surface Fluorination of ALD TiO ₂ Electron Transport Layer for Efficient Planar Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701456.	1.9	27
118	Improved structural and electrical properties in native Sb ₂ Te ₃ /Ge _x Sb ₂ Te _{3+x} van der Waals superlattices due to intermixing mitigation. <i>APL Materials</i> , 2017, 5, .	2.2	26
119	Bottom-Up Grown 2D InSb Nanostructures. <i>Advanced Materials</i> , 2019, 31, e1808181.	11.1	26
120	Precise ion energy control with tailored waveform biasing for atomic scale processing. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	26
121	Nitrogen-doping of bulk and nanotubular TiO ₂ photocatalysts by plasma-assisted atomic layer deposition. <i>Applied Surface Science</i> , 2015, 330, 476-486.	3.1	24
122	Collective photothermal effect of Al ₂ O ₃ -supported spheroidal plasmonic Ru nanoparticle catalysts in the sunlight-powered Sabatier reaction. <i>ChemCatChem</i> , 2020, 12, 5618-5622.	1.8	24
123	Cracking the Si Shell Growth in Hexagonal GaP-Si Core-Shell Nanowires. <i>Nano Letters</i> , 2015, 15, 2974-2979.	4.5	23
124	Quantitative prediction of junction leakage in bulk-technology CMOS devices. <i>Solid-State Electronics</i> , 2010, 54, 243-251.	0.8	22
125	Formation of Wurtzite InP Nanowires Explained by Liquid-Ordering. <i>Nano Letters</i> , 2011, 11, 44-48.	4.5	22
126	Spin-Orbit Interaction and Induced Superconductivity in a One-Dimensional Hole Gas. <i>Nano Letters</i> , 2018, 18, 6483-6488.	4.5	22

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127	Strain engineering in Ge/GeSn core/shell nanowires. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	22
128	Probing the Origin and Suppression of Vertically Oriented Nanostructures of 2D WS ₂ Layers. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3873-3885.	4.0	22
129	Atomic Layer Deposition of Al-Doped MoS ₂ : Synthesizing a p-type 2D Semiconductor with Tunable Carrier Density. <i>ACS Applied Nano Materials</i> , 2020, 3, 10200-10208.	2.4	22
130	Structures and phase transitions in C60 and C70 fullerites. <i>Ultramicroscopy</i> , 1993, 51, 168-188.	0.8	21
131	The competing roles of i-ZnO in Cu(In,Ga)Se ₂ solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2016, 157, 798-807.	3.0	21
132	Atomic Layer Deposition of In ₂ O ₃ :H from InCp and H ₂ O/O ₂ : Microstructure and Isotope Labeling Studies. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 592-601.	4.0	21
133	Extraction of Dzyaloshinskii-Moriya interaction from propagating spin waves. <i>Physical Review B</i> , 2020, 101, .	1.1	21
134	Surface passivation of germanium by atomic layer deposited Al ₂ O ₃ nanolayers. <i>Journal of Materials Research</i> , 2021, 36, 571-581.	1.2	21
135	Direct measurement of the near-field super resolved focused spot in InSb. <i>Optics Express</i> , 2012, 20, 10426.	1.7	20
136	Ordered Peierls distortion prevented at growth onset of GeTe ultra-thin films. <i>Scientific Reports</i> , 2016, 6, 32895.	1.6	20
137	Surface Infrared Spectroscopy during Low Temperature Growth of Supported Pt Nanoparticles by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2016, 120, 750-755.	1.5	20
138	The Influence of Particle Size Distribution and Shell Imperfections on the Plasmon Resonance of Au and Ag Nanoshells. <i>Plasmonics</i> , 2017, 12, 929-945.	1.8	20
139	Enhanced field-driven domain-wall motion in Pt/Co68B32/Pt strips. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	19
140	Glucose-functionalized polystyrene particles designed for selective deposition of silver on the surface. <i>RSC Advances</i> , 2014, 4, 62878-62881.	1.7	19
141	Highly porous, ultra-low refractive index coatings produced through random packing of silicated cellulose nanocrystals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 487, 1-8.	2.3	19
142	Pseudodirect to Direct Compositional Crossover in Wurtzite GaP/In _x Ga _{1-x} P Core-Shell Nanowires. <i>Nano Letters</i> , 2016, 16, 7930-7936.	4.5	19
143	Strong reduction of spectral heterogeneity in gold bipyramids for single-particle and single-molecule plasmon sensing. <i>Nanotechnology</i> , 2016, 27, 024001.	1.3	18
144	Synthesis of single-walled carbon nanotubes from atomic-layer-deposited Co ₃ O ₄ and Co ₃ O ₄ /Fe ₂ O ₃ catalyst films. <i>Carbon</i> , 2017, 121, 389-398.	5.4	18

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145	Surface passivation of n -type doped black silicon by atomic-layer-deposited SiO ₂ /Al ₂ O ₃ stacks. Applied Physics Letters, 2017, 110, .	1.5	18
146	Hard Superconducting Gap and Diffusion-Induced Superconductors in Ge/Si Nanowires. Nano Letters, 2020, 20, 122-130.	4.5	18
147	Plasma-assisted atomic layer deposition of conformal Pt films in high aspect ratio trenches. Journal of Chemical Physics, 2017, 146, 052818.	1.2	17
148	Atomic layer deposition of highly dispersed Pt nanoparticles on a high surface area electrode backbone for electrochemical promotion of catalysis. Electrochemistry Communications, 2017, 84, 40-44.	2.3	17
149	Twofold origin of strain-induced bending in core-shell nanowires: the GaP/InGaP case. Nanotechnology, 2018, 29, 315703.	1.3	17
150	Probing Lattice Dynamics and Electronic Resonances in Hexagonal Ge and Si _x Ge _{1-x} Alloys in Nanowires by Raman Spectroscopy. ACS Nano, 2020, 14, 6845-6856.	7.3	17
151	Kinetic Control of Morphology and Composition in Ge/GeSn Core/Shell Nanowires. ACS Nano, 2020, 14, 2445-2455.	7.3	17
152	Efficient Green Emission from Wurtzite Al _x In _{1-x} P Nanowires. Nano Letters, 2018, 18, 3543-3549.	4.5	16
153	Impact of Ions on Film Conformality and Crystallinity during Plasma-Assisted Atomic Layer Deposition of TiO ₂ . Chemistry of Materials, 2021, 33, 5002-5009.	3.2	16
154	Operando Spectroscopy Unveils the Catalytic Role of Different Palladium Oxidation States in CO Oxidation on Pd/CeO ₂ Catalysts. Angewandte Chemie - International Edition, 2022, 61, .	7.2	16
155	Low Temperature Sunlight-Powered Reduction of CO ₂ to CO Using a Plasmonic Au/TiO ₂ Nanocatalyst. ChemCatChem, 2021, 13, 4507-4513.	1.8	15
156	ScAlN nanowires: A cathodoluminescence study. Journal of Crystal Growth, 2009, 311, 3147-3151.	0.7	14
157	Zirconia thin film preparation by wet chemical methods at low temperature. Thin Solid Films, 2010, 519, 630-634.	0.8	14
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