

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	Growth of PbTe nanowires by molecular beam epitaxy. <i>Materials for Quantum Technology</i> , 2022, 2, 015001.	1.2	13
2	Continuous-Flow Sunlight-Powered CO ₂ Methanation Catalyzed by γ -Al ₂ O ₃ -Supported Plasmonic Ru Nanorods. <i>Catalysts</i> , 2022, 12, 126.	1.6	9
3	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
4	Comparing the Performance of Supported Ru Nanocatalysts Prepared by Chemical Reduction of RuCl ₃ and Thermal Decomposition of Ru ₃ (CO) ₁₂ in the Sunlight-Powered Sabatier Reaction. <i>Catalysts</i> , 2022, 12, 284.	1.6	4
5	Controlling transition metal atomic ordering in two-dimensional Mo _x W _{1-x} S ₂ alloys. <i>2D Materials</i> , 2022, 9, 025016.	2.0	9
6	Operando Spectroscopy Unveils the Catalytic Role of Different Palladium Oxidation States in CO Oxidation on Pd/CeO ₂ Catalysts. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	16
7	Thickness and Morphology Dependent Electrical Properties of ALD-Synthesized MoS ₂ FETs. <i>Advanced Electronic Materials</i> , 2022, 8, .	2.6	9
8	Titelbild: Operando Spectroscopy Unveils the Catalytic Role of Different Palladium Oxidation States in CO Oxidation on Pd/CeO ₂ Catalysts (<i>Angew. Chem.</i> 23/2022). <i>Angewandte Chemie</i> , 2022, 134, .	1.6	0
9	Prismatic Ge-rich inclusions in the hexagonal SiGe shell of GaP/SiGe nanowires by controlled faceting. <i>Nanoscale</i> , 2021, 13, 9436-9445.	2.8	1
10	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
11	Parity-preserving and magnetic field-resilient superconductivity in InSb nanowires with Sn shells. <i>Science</i> , 2021, 372, 508-511.	6.0	50
12	Improved Pd/CeO ₂ Catalysts for Low-Temperature NO Reduction: Activation of CeO ₂ Lattice Oxygen by Fe Doping. <i>ACS Catalysis</i> , 2021, 11, 5614-5627.	5.5	44
13	Unveiling Planar Defects in Hexagonal Group IV Materials. <i>Nano Letters</i> , 2021, 21, 3619-3625.	4.5	8
14	Impact of Ions on Film Conformality and Crystallinity during Plasma-Assisted Atomic Layer Deposition of TiO ₂ . <i>Chemistry of Materials</i> , 2021, 33, 5002-5009.	3.2	16
15	On the Contact Optimization of ALD-Based MoS ₂ FETs: Correlation of Processing Conditions and Interface Chemistry with Device Electrical Performance. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3185-3199.	2.0	8
16	Universal Platform for Scalable Semiconductor-Superconductor Nanowire Networks. <i>Advanced Functional Materials</i> , 2021, 31, 2103062.	7.8	10
17	Phase separation of VO ₂ and SiO ₂ on SiO ₂ -Coated float glass yields robust thermochromic coating with unrivalled optical properties. <i>Solar Energy Materials and Solar Cells</i> , 2021, 230, 111238.	3.0	7
18	Low Temperature Sunlight-Powered Reduction of CO ₂ to CO Using a Plasmonic Au/TiO ₂ Nanocatalyst. <i>ChemCatChem</i> , 2021, 13, 4507-4513.	1.8	15

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19	Novel microreactor and generic model catalyst platform for the study of fast temperature pulsed operation – CO oxidation rate enhancement on Pt. <i>Chemical Engineering Journal</i> , 2021, 425, 131559.	6.6	2
20	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
21	Conformal Growth of Nanometer-Thick Transition Metal Dichalcogenide TiS _x /NbS _x Heterostructures over 3D Substrates by Atomic Layer Deposition: Implications for Device Fabrication. <i>ACS Applied Nano Materials</i> , 2021, 4, 514-521.	2.4	8
22	Excellent surface passivation of germanium by a-Si:H/Al ₂ O ₃ stacks. <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	14
23	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
24	Hard Superconducting Gap and Diffusion-Induced Superconductors in Ge/Si Nanowires. <i>Nano Letters</i> , 2020, 20, 122-130.	4.5	18
25	Atomic layer deposition of ruthenium using an ABC-type process: Role of oxygen exposure during nucleation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, .	0.9	8
26	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
27	Area-Selective Atomic Layer Deposition of TiN Using Aromatic Inhibitor Molecules for Metal/Dielectric Selectivity. <i>Chemistry of Materials</i> , 2020, 32, 7788-7795.	3.2	42
28	Synthesis of edge-enriched WS ₂ on high surface area WS ₂ framework by atomic layer deposition for electrocatalytic hydrogen evolution reaction. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, .	0.9	4
29	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
30	Probing Lattice Dynamics and Electronic Resonances in Hexagonal Ge and Si/Ge Alloys in Nanowires by Raman Spectroscopy. <i>ACS Nano</i> , 2020, 14, 6845-6856.	7.3	17
31	Ballistic Phonons in Ultrathin Nanowires. <i>Nano Letters</i> , 2020, 20, 2703-2709.	4.5	30
32	Extraction of Dzyaloshinskii-Moriya interaction from propagating spin waves. <i>Physical Review B</i> , 2020, 101, .	1.1	21
33	Large area, patterned growth of 2D MoS ₂ and lateral MoS ₂ -WS ₂ heterostructures for nano- and opto-electronic applications. <i>Nanotechnology</i> , 2020, 31, 255603.	1.3	46
34	Atomic layer deposition of Nb-doped TiO ₂ : Dopant incorporation and effect of annealing. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, .	0.9	12
35	Kinetic Control of Morphology and Composition in Ge/GeSn Core/Shell Nanowires. <i>ACS Nano</i> , 2020, 14, 2445-2455.	7.3	17
36	Editorial Expression of Concern: Quantized Majorana conductance. <i>Nature</i> , 2020, 581, E4-E4.	13.7	10

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37	Area-Selective Atomic Layer Deposition of Two-Dimensional WS ₂ Nanolayers. , 2020, 2, 511-518.		45
38	Direct-bandgap emission from hexagonal Ge and SiGe alloys. Nature, 2020, 580, 205-209.	13.7	231
39	In-plane selective area InSb-Al nanowire quantum networks. Communications Physics, 2020, 3, .	2.0	37
40	Understanding the Film Formation Kinetics of Sequential Deposited Narrow-Bandgap Pb-Sn Hybrid Perovskite Films. Advanced Energy Materials, 2020, 10, 2000566.	10.2	33
41	Plasma-Assisted ALD of Highly Conductive HfNx: On the Effect of Energetic Ions on Film Microstructure. Plasma Chemistry and Plasma Processing, 2020, 40, 697-712.	1.1	13
42	Precise ion energy control with tailored waveform biasing for atomic scale processing. Journal of Applied Physics, 2020, 128, .	1.1	26
43	Full characterization and modeling of graded interfaces in a high lattice-mismatch axial nanowire heterostructure. Physical Review Materials, 2020, 4, .	0.9	5
44	Towards a Hexagonal SiGe Semiconductor Laser.. , 2020, , .		0
45	Transition Matrix Element and Recombination Mechanism of Hexagonal SiGe.. , 2020, , .		0
46	Transition in layer structure of atomic/molecular layer deposited ZnO-zincone multilayers. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	0.9	9
47	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
48	Strain engineering in Ge/GeSn core/shell nanowires. Applied Physics Letters, 2019, 115, .	1.5	22
49	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. ACS Energy Letters, 2019, 4, 583-590.	8.8	155
50	Area-Selective Atomic Layer Deposition of ZnO by Area Activation Using Electron Beam-Induced Deposition. Chemistry of Materials, 2019, 31, 1250-1257.	3.2	62
51	Area-Selective Deposition of Ruthenium by Combining Atomic Layer Deposition and Selective Etching. Chemistry of Materials, 2019, 31, 3878-3882.	3.2	71
52	Phonon Engineering in Twinning Superlattice Nanowires. Nano Letters, 2019, 19, 4702-4711.	4.5	31
53	Edge-Site Nanoengineering of WS ₂ by Low-Temperature Plasma-Enhanced Atomic Layer Deposition for Electrocatalytic Hydrogen Evolution. Chemistry of Materials, 2019, 31, 5104-5115.	3.2	57
54	Boosting the Performance of WO ₃ /n-Si Heterostructures for Photoelectrochemical Water Splitting: from the Role of Si to Interface Engineering. Advanced Energy Materials, 2019, 9, 1900940.	10.2	48

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55	Electrochemistry of Sputtered Hematite Photoanodes: A Comparison of Metallic DC versus Reactive RF Sputtering. <i>ACS Omega</i> , 2019, 4, 9262-9270.	1.6	7
56	High Mobility Stemless InSb Nanowires. <i>Nano Letters</i> , 2019, 19, 3575-3582.	4.5	36
57	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
58	Hexagonal silicon grown from higher order silanes. <i>Nanotechnology</i> , 2019, 30, 295602.	1.3	12
59	Bottom-Up Grown 2D InSb Nanostructures. <i>Advanced Materials</i> , 2019, 31, e1808181.	11.1	26
60	Polarized Raman spectroscopy to elucidate the texture of synthesized MoS ₂ . <i>Nanoscale</i> , 2019, 11, 22860-22870.	2.8	13
61	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
62	Chemical Analysis of the Interface between Hybrid Organic-Inorganic Perovskite and Atomic Layer Deposited Al ₂ O ₃ . <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5526-5535.	4.0	40
63	Selective-area chemical beam epitaxy of in-plane InAs one-dimensional channels grown on InP(001), InP(111)B, and InP(011) surfaces. <i>Physical Review Materials</i> , 2019, 3, .	0.9	48
64	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
65	Low resistivity HfN _x grown by plasma-assisted ALD with external rf substrate biasing. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3917-3926.	2.7	31
66	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
67	Shape and structural motifs control of MgTi bimetallic nanoparticles using hydrogen and methane as trace impurities. <i>Nanoscale</i> , 2018, 10, 1297-1307.	2.8	4
68	Efficient Green Emission from Wurtzite Al _x In _{1-x} P Nanowires. <i>Nano Letters</i> , 2018, 18, 3543-3549.	4.5	16
69	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
70	Bottom-up meets top-down: tailored raspberry-like Fe ₃ O ₄ -Pt nanocrystal superlattices. <i>Nanoscale</i> , 2018, 10, 5859-5863.	2.8	4
71	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
72	Critical strain for Sn incorporation into spontaneously graded Ge/GeSn core/shell nanowires. <i>Nanoscale</i> , 2018, 10, 7250-7256.	2.8	28

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73	Spinâ€œOrbit Interaction and Induced Superconductivity in a One-Dimensional Hole Gas. Nano Letters, 2018, 18, 6483-6488.	4.5	22
74	Isotropic Atomic Layer Etching of ZnO Using Acetylacetone and O ₂ Plasma. ACS Applied Materials & Interfaces, 2018, 10, 38588-38595.	4.0	30
75	Qualification of an Ultrasonic Instrument for Real-Time Monitoring of Size and Concentration of Nanoparticles during Liquid Phase Bottom-Up Synthesis. Applied Sciences (Switzerland), 2018, 8, 1064.	1.3	4
76	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
77	Atomic-layer deposited Nb ₂ O ₅ as transparent passivating electron contact for c-Si solar cells. Solar Energy Materials and Solar Cells, 2018, 184, 98-104.	3.0	64
78	Twofold origin of strain-induced bending in coreâ€œshell nanowires: the GaP/InGaP case. Nanotechnology, 2018, 29, 315703.	1.3	17
79	Flow Cell Coupled Dynamic Light Scattering for Real-Time Monitoring of Nanoparticle Size during Liquid Phase Bottom-Up Synthesis. Applied Sciences (Switzerland), 2018, 8, 108.	1.3	8
80	Low-Temperature Plasma-Assisted Atomic-Layer-Deposited SnO ₂ as an Electron Transport Layer in Planar Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 30367-30378.	4.0	88
81	Decoupling high surface recombination velocity and epitaxial growth for silicon passivation layers on crystalline silicon. Journal Physics D: Applied Physics, 2017, 50, 065305.	1.3	4
82	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
83	Plasma-assisted atomic layer deposition of conformal Pt films in high aspect ratio trenches. Journal of Chemical Physics, 2017, 146, 052818.	1.2	17
84	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
85	Uniform Atomic Layer Deposition of Al ₂ O ₃ on Graphene by Reversible Hydrogen Plasma Functionalization. Chemistry of Materials, 2017, 29, 2090-2100.	3.2	64
86	Plasma-assisted atomic layer deposition of HfN _x : Tailoring the film properties by the plasma gas composition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	0.9	9
87	Boosting Hole Mobility in Coherently Strained [110]-Oriented Geâ€œSi Coreâ€œShell Nanowires. Nano Letters, 2017, 17, 2259-2264.	4.5	51
88	Atomic layer deposition for perovskite solar cells: research status, opportunities and challenges. Sustainable Energy and Fuels, 2017, 1, 30-55.	2.5	150
89	Growth and Optical Properties of Direct Band Gap Ge/Ge _{0.87} Sn _{0.13} Core/Shell Nanowire Arrays. Nano Letters, 2017, 17, 1538-1544.	4.5	72
90	Atomic Layer Deposition of In ₂ O ₃ :H from InCp and H ₂ O/O ₂ : Microstructure and Isotope Labeling Studies. ACS Applied Materials & Interfaces, 2017, 9, 592-601.	4.0	21

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91	Electrically conductive coatings consisting of Ag-decorated cellulose nanocrystals. <i>Cellulose</i> , 2017, 24, 2191-2204.	2.4	30
92	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
93	Atomic layer deposition of high-mobility hydrogen-doped zinc oxide. <i>Solar Energy Materials and Solar Cells</i> , 2017, 173, 111-119.	3.0	40
94	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
95	Microscopic studies of polycrystalline nanoparticle growth in free space. <i>Journal of Crystal Growth</i> , 2017, 467, 137-144.	0.7	3
96	Improved structural and electrical properties in native Sb ₂ Te ₃ /GexSb ₂ Te _{3+x} van der Waals superlattices due to intermixing mitigation. <i>APL Materials</i> , 2017, 5, .	2.2	26
97	Protecting patches in colloidal synthesis of Au semishells. <i>Chemical Communications</i> , 2017, 53, 3898-3901.	2.2	5
98	Single-Crystalline Hexagonal Silicon-Germanium. <i>Nano Letters</i> , 2017, 17, 85-90.	4.5	59
99	Atomic layer deposition of highly dispersed Pt nanoparticles on a high surface area electrode backbone for electrochemical promotion of catalysis. <i>Electrochemistry Communications</i> , 2017, 84, 40-44.	2.3	17
100	(Invited) Area-Selective Atomic Layer Deposition: Role of Surface Chemistry. <i>ECS Transactions</i> , 2017, 80, 39-48.	0.3	13
101	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
102	Crystal Phase Quantum Well Emission with Digital Control. <i>Nano Letters</i> , 2017, 17, 6062-6068.	4.5	27
103	Surface passivation of n-type doped black silicon by atomic-layer-deposited SiO ₂ /Al ₂ O ₃ stacks. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	18
104	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
105	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
106	Synthesis of Polystyrene-Polyphenylsiloxane Janus Particles through Colloidal Assembly with Unexpected High Selectivity: Mechanistic Insights and Their Application in the Design of Polystyrene Particles with Multiple Polyphenylsiloxane Patches. <i>Polymers</i> , 2017, 9, 475.	2.0	8
107	Synthesis and Characterization of Hybrid Particles Obtained in a One-Pot Process through Simultaneous Sol-Gel Reaction of (3-Mercaptopropyl)trimethoxysilane and Emulsion Polymerization of Styrene. <i>Colloids and Interfaces</i> , 2017, 1, 7.	0.9	3
108	Atomic-layer deposited passivation schemes for c-Si solar cells. , 2017, , .		4

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109	Silicon heterojunction solar cell passivation in combination with nanocrystalline silicon oxide emitters. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 1932-1936.	0.8	9
110	Receptor-Targeted Luminescent Silver Bionanoparticles. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 3030-3035.	1.0	4
111	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
112	Atomic-layer deposited passivation schemes for c-Si solar cells. , 2016, , .		3
113	Atomic stacking and van-der-Waals bonding in GeTe ₂ Sb ₂ Te ₃ superlattices. <i>Journal of Materials Research</i> , 2016, 31, 3115-3124.	1.2	53
114	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
115	Crossed InSb nanowire junctions for Majorana operations. , 2016, , .		0
116	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
117	High-Yield Growth and Characterization of ~100% InP p-n Diode Nanowires. <i>Nano Letters</i> , 2016, 16, 3071-3077.	4.5	11
118	Gas phase grown silicon germanium nanocrystals. <i>Chemical Physics Letters</i> , 2016, 661, 185-190.	1.2	3
119	On the Growth, Percolation and Wetting of Silver Thin Films Grown by Atmospheric-Plasma Enhanced Spatial Atomic Layer Deposition. <i>ECS Transactions</i> , 2016, 75, 129-142.	0.3	6
120	Impurity and Defect Monitoring in Hexagonal Si and SiGe Nanocrystals. <i>ECS Transactions</i> , 2016, 75, 751-760.	0.3	6
121	Expanding Thermal Plasma Deposition of Al-doped ZnO: On the Effect of the Plasma Chemistry on Film Growth Mechanisms. <i>Plasma Processes and Polymers</i> , 2016, 13, 54-69.	1.6	5
122	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
123	Influence of growth conditions on the performance of InP nanowire solar cells. <i>Nanotechnology</i> , 2016, 27, 454003.	1.3	10
124	New opportunities with nanowires. , 2016, , .		0
125	Ordered Peierls distortion prevented at growth onset of GeTe ultra-thin films. <i>Scientific Reports</i> , 2016, 6, 32895.	1.6	20
126	Revisiting the Local Structure in Ge-Sb-Te based Chalcogenide Superlattices. <i>Scientific Reports</i> , 2016, 6, 22353.	1.6	63

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127	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
128	Functional nickel-based deposits synthesized by focused beam induced processing. <i>Nanotechnology</i> , 2016, 27, 065303.	1.3	8
129	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
130	Nucleation of microcrystalline silicon: on the effect of the substrate surface nature and nano-imprint topography. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 055205.	1.3	3
131	p-type nc-SiO _x :H emitter layer for silicon heterojunction solar cells grown by rf-PECVD. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1770, 7-12.	0.1	1
132	Sub-nanometer dimensions control of core/shell nanoparticles prepared by atomic layer deposition. <i>Nanotechnology</i> , 2015, 26, 094002.	1.3	60
133	Atomic layer deposition of B-doped ZnO using triisopropyl borate as the boron precursor and comparison with Al-doped ZnO. <i>Journal of Materials Chemistry C</i> , 2015, 3, 3095-3107.	2.7	48
134	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
135	Hexagonal Silicon Realized. <i>Nano Letters</i> , 2015, 15, 5855-5860.	4.5	142
136	Efficient water reduction with gallium phosphide nanowires. <i>Nature Communications</i> , 2015, 6, 7824.	5.8	123
137	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
138	Encapsulation method for atom probe tomography analysis of nanoparticles. <i>Ultramicroscopy</i> , 2015, 159, 420-426.	0.8	40
139	Cracking the Si Shell Growth in Hexagonal GaP-Si Core-Shell Nanowires. <i>Nano Letters</i> , 2015, 15, 2974-2979.	4.5	23
140	Interface formation of two- and three-dimensionally bonded materials in the case of GeTe ₂ Sb ₂ Te ₃ superlattices. <i>Nanoscale</i> , 2015, 7, 19136-19143.	2.8	145
141	Correlative transmission electron microscopy and electrical properties study of switchable phase-change random access memory line cells. <i>Journal of Applied Physics</i> , 2015, 117, 064504.	1.1	5
142	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
143	Exploring Crystal Phase Switching in GaP Nanowires. <i>Nano Letters</i> , 2015, 15, 8062-8069.	4.5	55
144	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

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145	Direct band gap wurtzite GaP nanowires for LEDs and quantum devices. Proceedings of SPIE, 2014, , .	0.8	0
146	Investigation of Embedded Perovskite Nanoparticles for Enhanced Capacitor Permittivities. ACS Applied Materials & Interfaces, 2014, 6, 19737-19743.	4.0	3
147	Glucose-functionalized polystyrene particles designed for selective deposition of silver on the surface. RSC Advances, 2014, 4, 62878-62881.	1.7	19
148	Plasma-Assisted Atomic Layer Deposition of PtO _x from (MeCp)PtMe ₃ and O ₂ Plasma. Chemical Vapor Deposition, 2014, 20, 258-268.	1.4	11
149	Rational Design: Rationally Designed Single-Crystalline Nanowire Networks (Adv. Mater. 28/2014). Advanced Materials, 2014, 26, 4908-4908.	11.1	1
150	Electrocatalytic activity of atomic layer deposited Pt-Ru catalysts onto N-doped carbon nanotubes. Journal of Catalysis, 2014, 311, 481-486.	3.1	51
151	Photoelectrochemical Hydrogen Production on InP Nanowire Arrays with Molybdenum Sulfide Electrocatalysts. Nano Letters, 2014, 14, 3715-3719.	4.5	106
152	Atomic Layer Deposition of Highly Transparent Platinum Counter Electrodes for Metal/Polymer Flexible Dye-Sensitized Solar Cells. Advanced Energy Materials, 2014, 4, 1300831.	10.2	28
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