

Dietrich R.T. Zahn

List of Publications by Year in descending order

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810
papers

15,516
citations

36303

51
h-index

53230

85
g-index

826
all docs

826
docs citations

826
times ranked

17617
citing authors

#	ARTICLE	IF	CITATIONS
19	Traps and transport resistance are the next frontiers for stable non-fullerene acceptor solar cells. <i>Nature Communications</i> , 2022, 13, .	12.8	23
20	Controlling excitons in the quantum tunneling regime in a hybrid plasmonic/2D semiconductor interface. <i>Applied Physics Reviews</i> , 2022, 9, 031401.	11.3	6
21	Iron oxide nanospheres and nanocubes modified with carboxyphenyl porphyrin and their magnetic, optical properties and photocatalytic activities in room temperature amide synthesis. <i>Journal of Magnetism and Magnetic Materials</i> , 2021, 521, 167515.	2.3	4
22	High-performance Coll-phthalocyanine-based polymer for practical heterogeneous electrochemical reduction of carbon dioxide. <i>Electrochimica Acta</i> , 2021, 367, 137506.	5.2	12
23	Structure, electrical conductivity, and Raman spectra of (Cu1 $\hat{=}$ Ag)7GeS5I and (Cu1 $\hat{=}$ Ag)7GeSe5I mixed crystals. <i>Materials Research Bulletin</i> , 2021, 135, 111116.	5.2	16
24	Electrical Interface Characterization of Ultrathin Amorphous Silicon Layers on Crystalline Silicon. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000079.	1.8	0
25	Lipid nanotubes as an organic template for the fabrication of carbon nanostructures by pyrolysis. <i>Nanoscale</i> , 2021, 13, 6927-6933.	5.6	1
26	Single-layer carbon nitride: synthesis, structure, photophysical/photochemical properties, and applications. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 20745-20764.	2.8	5
27	Effect of pH and Polyelectrolytes on the Spectral-Kinetic Properties of AIS/ZnS Semiconductor Quantum Dots in Aqueous Solutions. <i>Journal of Applied Spectroscopy</i> , 2021, 87, 1057-1066.	0.7	4
28	Fermi resonance in a molecule adsorbed on plasmonic metal film. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 815-820.	2.5	0
29	Atmospheric pressure metal organic chemical vapor deposition of thin germanium films. <i>Journal of Materials Science</i> , 2021, 56, 9274-9286.	3.7	3
30	Understanding the Role of Different Substrate Geometries for Achieving Optimum Tip-Enhanced Raman Scattering Sensitivity. <i>Nanomaterials</i> , 2021, 11, 376.	4.1	7
31	APTES monolayer coverage on self-assembled magnetic nanospheres for controlled release of anticancer drug Nintedanib. <i>Scientific Reports</i> , 2021, 11, 5674.	3.3	53
32	Microellipsometry study of plasmonic properties of metal $\hat{=}$ insulator $\hat{=}$ metal structures with ordered lattices of nanoparticles. <i>Journal of Applied Physics</i> , 2021, 129, 123104.	2.5	5
33	Structural and optical study of glutathione-capped Ag $\hat{=}$ In $\hat{=}$ S nanocrystals. <i>Molecular Crystals and Liquid Crystals</i> , 2021, 717, 98-108.	0.9	3
34	Influence of Nanoarchitectures on Interlayer Interactions in Layered Bi $\hat{=}$ Mo $\hat{=}$ Se Heterostructures. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9469-9478.	3.1	4
35	Multifunctional Magneto-Plasmonic Fe ₃ O ₄ /Au Nanocomposites: Approaching Magnetophoretically-Enhanced Photothermal Therapy. <i>Nanomaterials</i> , 2021, 11, 1113.	4.1	21
36	Spectroscopic ellipsometry of amorphous Se superlattices. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 255106.	2.8	0

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37	Room-Temperature Electron Paramagnetic Resonance Study of a Copper-Related Defect in Cu ₂ ZnSn ₄ Colloidal Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2021, 125, 9923-9929.	3.1	4
38	Raman and X-ray Photoelectron Spectroscopic Study of Aqueous Thiol-Capped Ag-Zn-Sn-S Nanocrystals. <i>Materials</i> , 2021, 14, 3593.	2.9	9
39	High-Throughput Time-Resolved Photoluminescence Study of Composition- and Size-Selected Aqueous Ag-In-S Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12185-12197.	3.1	13
40	Plasmonic hot electron induced layer dependent anomalous Fröhlich interaction in InSe. <i>Communications Physics</i> , 2021, 4, .	5.3	13
41	Laser induced crystallization of Co-Fe-B films. <i>Scientific Reports</i> , 2021, 11, 14104.	3.3	2
42	Highly selective hydrogenation of acetylene over reduced graphene oxide carbocatalyst. <i>Materialia</i> , 2021, 18, 101163.	2.7	7
43	High-Throughput Robotic Synthesis and Photoluminescence Characterization of Aqueous Multinary Copper-Silver Indium Chalcogenide Quantum Dots. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2100169.	2.3	12
44	Ethane Direct Dehydrogenation over Carbon Nanotubes and Reduced Graphene Oxide. <i>ChemistrySelect</i> , 2021, 6, 8981-8984.	1.5	3
45	Self-assembly of semiconductor quantum dots with porphyrin chromophores: Energy relaxation processes and biomedical applications. <i>Journal of Molecular Structure</i> , 2021, 1244, 131239.	3.6	9
46	Effect of the deposition method and ageing in atmosphere on the optical properties of tetraphenylporphyrins (TPPs) films. <i>Journal of Molecular Structure</i> , 2021, 1246, 131112.	3.6	0
47	Spontaneous alloying of ultrasmall non-stoichiometric Ag-In-S and Cu-In-S quantum dots in aqueous colloidal solutions. <i>RSC Advances</i> , 2021, 11, 21145-21152.	3.6	5
48	Ternary Cd _{1-x} Se _x nanocrystals formed in Cd-doped As ₂ Se ₃ films due to photoenhanced diffusion during micro-Raman measurement. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 821-832.	2.5	4
49	Chlorine doping of MoSe ₂ flakes by ion implantation. <i>Nanoscale</i> , 2021, 13, 5834-5846.	5.6	21
50	Plasmon Enhancement of Emission and Absorption by CdSe-based Nanocrystals. , 2021, .		0
51	Conversion of 2-dimensional GaSe to 2-dimensional β -Ga ₂ O ₃ by thermal oxidation. <i>Nanotechnology</i> , 2021, 33, .	2.6	2
52	Observation of Room-Temperature Dark Exciton Emission in Nanopatch-Decorated Monolayer WSe ₂ on Metal Substrate. <i>Advanced Optical Materials</i> , 2021, 9, 2101801.	7.3	11
53	Colloidal Cu-Zn-Sn-Te Nanocrystals: Aqueous Synthesis and Raman Spectroscopy Study. <i>Nanomaterials</i> , 2021, 11, 2923.	4.1	7
54	Highly Tunable Magnetic and Magnetotransport Properties of Exchange Coupled Ferromagnet/Antiferromagnet-Based Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 59497-59510.	8.0	3

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55	Iron-rich talc as air-stable platform for magnetic two-dimensional materials. Npj 2D Materials and Applications, 2021, 5, .	7.9	7
56	Catalytic properties of reduced graphene oxide in acetylene hydrogenation. Carbon, 2020, 157, 277-285.	10.3	14
57	Comment to "Continuous-wave laser irradiation to form Cd ^{1-x} Zn ^x Se shell on CdSe QDs in silicate glasses"(J. Amer. Ceram. Soc. 102, 4555-4561 (2019)). Journal of the American Ceramic Society, 2020, 103, 692-694.	3.8	2
58	Facile preparation and high photocatalytic activity of crystalline graphitic carbon nitride in hydrogen evolution from electron donor solutions under visible light. Journal of Photochemistry and Photobiology A: Chemistry, 2020, 390, 112295.	3.9	20
59	Comment to "Formation of CdS/Cd ^{1-x} Zn ^x S sandwich-structured quantum dots with high quantum efficiency in silicate glasses"(Journal of Luminescence 186 (2017) 30-33). Journal of Luminescence, 2020, 219, 116921.	3.1	1
60	The Limits of the Post-Growth Optimization of AlN Thin Films Grown on Si(111) via Magnetron Sputtering. Physica Status Solidi (B): Basic Research, 2020, 257, 1900400.	1.5	14
61	Resonant tip-enhanced Raman scattering by CdSe nanocrystals on plasmonic substrates. Nanoscale Advances, 2020, 2, 5441-5449.	4.6	6
62	Voltage-Controlled Dielectric Function of Bilayer Graphene. Advanced Optical Materials, 2020, 8, 2000861.	7.3	11
63	Control of magneto-optical properties of cobalt-layers by adsorption of L-helical polyalanine self-assembled monolayers. Journal of Materials Chemistry C, 2020, 8, 11822-11829.	5.5	7
64	Formation of molecular Se ₂ dimers in semiconductor-doped borosilicate glasses. Molecular Crystals and Liquid Crystals, 2020, 700, 54-62.	0.9	0
65	Composition-Dependent Optical Band Bowing, Vibrational, and Photochemical Behavior of Aqueous Glutathione-Capped (Cu, Ag)-In ₂ S Quantum Dots. Journal of Physical Chemistry C, 2020, 124, 19375-19388.	3.1	15
66	Resonant plasmon enhancement of light emission from CdSe/CdS nanoplatelets on Au nanodisk arrays. Journal of Chemical Physics, 2020, 153, 164708.	3.0	9
67	Physical properties of amorphous Selenium superlattice structures for future X-ray detectors. , 2020, , .		0
68	Improved rectification and transport properties of hybrid PEDOT:PSS/Ge/Si heterojunctions with Ge nanoclusters. Journal of Applied Physics, 2020, 128, 085503.	2.5	1
69	Graphitic carbon nitride nanotubes: a new material for emerging applications. RSC Advances, 2020, 10, 34059-34087.	3.6	35
70	Co-sputtering of Al _{1-x} Sc _x N thin films on Pt(111): a characterization by Raman and IR spectroscopies. Journal of Materials Science, 2020, 55, 17061-17071.	3.7	4
71	Effect of the Modification of TiO ₂ with Thiourea on its Photocatalytic Activity in Doxycycline Degradation. Theoretical and Experimental Chemistry, 2020, 56, 183-191.	0.8	6
72	Fine-tuning of localized surface plasmon resonance of metal nanostructures from near-Infrared to blue prepared by nanosphere lithography. Journal of Applied Physics, 2020, 128, .	2.5	20

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73	Relaxation Processes and Exciton-Phonon Interactions in Nanocomposites Based on CdSe/ZnS Semiconductor Quantum Dots and Porphyrin Molecules. Russian Physics Journal, 2020, 63, 1348-1358.	0.4	1
74	Pulsed laser deposited CoFe_2O_4 thin films as supercapacitor electrodes. RSC Advances, 2020, 10, 19353-19359.	3.6	36
75	Raman and X-ray Photoemission Identification of Colloidal Metal Sulfides as Potential Secondary Phases in Nanocrystalline $\text{Cu}_2\text{ZnSnS}_4$ Photovoltaic Absorbers. ACS Applied Nano Materials, 2020, 3, 5706-5717.	5.0	25
76	Structure and vibrational spectra of ReSe ₂ nanoplates. Journal of Raman Spectroscopy, 2020, 51, 1305-1314.	2.5	6
77	Observation of two-level defect system in amorphous Se superlattices. Applied Physics Letters, 2020, 116, 192104.	3.3	3
78	Phonon Spectra of Strongly Luminescent Nonstoichiometric AgIn_xS , CuIn_xS , and HgIn_xS Nanocrystals of Small Size. Journal of Physical Chemistry C, 2020, 124, 15511-15522.	3.1	17
79	Multiwavelength optical sensor based on a gradient photonic crystal with a hexagonal plasmonic array. Sensors and Actuators B: Chemical, 2020, 311, 127837.	7.8	7
80	Crystallization of optically thick films of Co_xB_{20} : Evolution of optical, magneto-optical, and structural properties. Physical Review B, 2020, 101, .	3.2	10
81	Charge-Ordered \pm -Helical Polypeptide Monolayers on Au(111). Journal of Physical Chemistry C, 2020, 124, 5734-5739.	3.1	12
82	Raman and Infrared Phonon Spectra of Novel Nonlinear Optical Materials $\text{PbGa}_2\text{GeS}_6$ and $\text{PbGa}_2\text{GeSe}_6$: Experiment and Theory. Physica Status Solidi (B): Basic Research, 2020, 257, 1900700.	1.5	3
83	Raman study of laser-induced formation of In_xVI nanocrystals in zinc-doped $\text{As}_x\text{S}(\text{Se})$ films. Applied Nanoscience (Switzerland), 2020, 10, 4831-4837.	3.1	6
84	Synthesis from aqueous solutions and optical properties of AgIn_xS quantum dots. Applied Nanoscience (Switzerland), 2020, 10, 4909-4921.	3.1	8
85	Spectroscopic ellipsometry and magneto-optical Kerr effect spectroscopy study of thermally treated $\text{Co}_{60}\text{Fe}_{20}\text{B}_{20}$ thin films. Journal of Physics Condensed Matter, 2020, 32, 055702.	1.8	9
86	Surface modification of graphene oxide <i>via</i> noncovalent functionalization with porphyrins for selective photocatalytic oxidation of alcohols. New Journal of Chemistry, 2020, 44, 8264-8272.	2.8	18
87	Ultra-small aqueous glutathione-capped AgIn_xSe quantum dots: luminescence and vibrational properties. RSC Advances, 2020, 10, 42178-42193.	3.6	16
88	Photoinduced Enhancement of Photoluminescence of Colloidal II-VI Nanocrystals in Polymer Matrices. Nanomaterials, 2020, 10, 2565.	4.1	5
89	Macroheterocyclic Compounds - a Key Building Block in New Functional Materials and Molecular Devices. Macroheterocycles, 2020, 13, 311-467.	0.5	91
90	Index matching in multilayered organic waveguides. Journal of Physics Condensed Matter, 2020, 32, 485702.	1.8	1

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91	Unique Luminescent Properties of Composition-/Size-Selected Aqueous Ag-In-S and Core/Shell Ag-In-S/ZnS Quantum Dots. Lecture Notes in Nanoscale Science and Technology, 2020, , 67-122.	0.8	2
92	Quantitative Experimental and Theoretical Analysis of Photoinduced Relaxation Processes in Self-Assembled Porphyrin Triads. Macroheterocycles, 2020, 13, 130-141.	0.5	0
93	INFLUENCE OF CALCINATION TEMPERATURE ON STRUCTURAL-DIMENSIONAL CHARACTERISTICS OF C,S-DOPED TiO ₂ NANOSTRUCTURES AND THEIR PHOTOCATALYTIC ACTIVITY IN THE CEFTAZIDIME AND DOXYCYCLINE PHOTODEGRADATION PROCESSES. Ukrainian Chemistry Journal, 2020, 86, 95-119.	0.5	1
94	Plasmon-Enhanced Vibrational Spectroscopy of Semiconductors Nanocrystals. Optoelectronics, Instrumentation and Data Processing, 2020, 56, 503-509.	0.6	1
95	Comment to "Multi-photon Raman scattering and yellow-green-light emission from feather-like Cd _{1-x} Zn _x S nanostructures" by Song Yang and Jun Zhang (Applied Physics A (2019) 125:454). Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	0
96	Transport Properties of Se/As ₂ Se ₃ Nanolayer Superlattice Fabricated Using Rotational Evaporation. Advanced Functional Materials, 2019, 29, 1904758.	14.9	7
97	Insights into different photoluminescence mechanisms of binary and ternary aqueous nanocrystals from the temperature dependence: A case study of CdSe and Ag-In-S. Journal of Luminescence, 2019, 215, 116630.	3.1	17
98	Flexoelectric and local heating effects on CdSe nanocrystals in amorphous As ₂ Se ₃ films. Materials Research Express, 2019, 6, 095913.	1.6	6
99	Localized surface curvature artifacts in tip-enhanced nanospectroscopy imaging. Ultramicroscopy, 2019, 206, 112811.	1.9	4
100	Synthesis and Properties of (BiSe) _{0.97} MoSe ₂ : A Heterostructure Containing Both 2H-MoSe ₂ and 1T-MoSe ₂ . Chemistry of Materials, 2019, 31, 5824-5831.	6.7	14
101	Charge Carrier Transport, Trapping, and Recombination in PEDOT:PSS/n-Si Solar Cells. ACS Applied Energy Materials, 2019, 2, 5983-5991.	5.1	9
102	Nanoscale n++p junction formation in GeOI probed by tip-enhanced Raman spectroscopy and conductive atomic force microscopy. Journal of Applied Physics, 2019, 125, 245703.	2.5	5
103	Mercury-indium-sulfide nanocrystals: A new member of the family of ternary in based chalcogenides. Journal of Chemical Physics, 2019, 151, 144701.	3.0	15
104	Sensoric Micro and Nano Systems. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900733.	1.8	0
105	Long-Term Stability of Optical Properties of Colloidal CdSe Nanocrystals in Polymer Matrices. International Journal of Nanoscience, 2019, 18, 1940052.	0.7	1
106	The role of a plasmonic substrate on the enhancement and spatial resolution of tip-enhanced Raman scattering. Faraday Discussions, 2019, 214, 309-323.	3.2	33
107	Tuning the surface plasmon resonance in gold nanocrystals with single layer carbon nitride. RSC Advances, 2019, 9, 444-449.	3.6	7
108	Raman study of flash-lamp annealed aqueous Cu ₂ ZnSnS ₄ nanocrystals. Beilstein Journal of Nanotechnology, 2019, 10, 222-227.	2.8	12

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109	Structural and optical study of Zn-doped As ₂ Se ₃ thin films: Evidence for photoinduced formation of ZnSe nanocrystallites. <i>AIP Advances</i> , 2019, 9, .	1.3	11
110	Advanced Characterization Methods for Electrical and Sensoric Components and Devices at the Micro and Nano Scales. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1900106.	1.8	4
111	Ion-Induced Defects in Graphite: A Combined Kelvin Probe and Raman Microscopy Investigation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1900055.	1.8	8
112	Molecular Engineering of Conjugated Acetylenic Polymers for Efficient Cocatalyst-free Photoelectrochemical Water Reduction. <i>Angewandte Chemie</i> , 2019, 131, 10476-10482.	2.0	27
113	Molecular Engineering of Conjugated Acetylenic Polymers for Efficient Cocatalyst-free Photoelectrochemical Water Reduction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 10368-10374.	13.8	42
114	Exchange bias and diffusion processes in laser annealed CoFeB/IrMn thin films. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 489, 165390.	2.3	9
115	Localized Surface Plasmon Resonance in Gold Nanocluster Arrays on Opaque Substrates. <i>Plasmonics</i> , 2019, 14, 1527-1537.	3.4	13
116	Flexible plasmonic graphene oxide/heterostructures for dual-channel detection. <i>Analyst</i> , The, 2019, 144, 3297-3306.	3.5	18
117	Temperature-Dependent Photoluminescence of Silver-Indium-Sulfide Nanocrystals in Aqueous Colloidal Solutions. <i>ChemPhysChem</i> , 2019, 20, 1640-1648.	2.1	17
118	Brightly Luminescent Core/Shell Nanoplatelets with Continuously Tunable Optical Properties. <i>Advanced Optical Materials</i> , 2019, 7, 1801478.	7.3	33
119	Growth of Nanocrystalline MoSe ₂ Monolayers on Epitaxial Graphene from Amorphous Precursors (<i>Phys. Status Solidi B</i> 2/2019). <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1970015.	1.5	0
120	Humidity Sensing Behavior of Endohedral Li-Doped and Undoped SWCNT/SDBS Composite Films. <i>Sensors</i> , 2019, 19, 171.	3.8	8
121	Plasmon-Enhanced Near-Field Optical Spectroscopy of Multicomponent Semiconductor Nanostructures. <i>Optoelectronics, Instrumentation and Data Processing</i> , 2019, 55, 488-494.	0.6	2
122	Synergistical Use of Electrostatic and Hydrophobic Interactions for the Synthesis of a New Class of Multifunctional Nanohybrids: Plasmonic Magneto-Liposomes. <i>Nanomaterials</i> , 2019, 9, 1623.	4.1	10
123	Growth of Nanocrystalline MoSe ₂ Monolayers on Epitaxial Graphene from Amorphous Precursors. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800283.	1.5	1
124	Helical Ordering of α -Polyalanine Molecular Layers by Interdigitation. <i>Journal of Physical Chemistry C</i> , 2019, 123, 612-617.	3.1	12
125	Laser-Induced Formation of CdS Crystallites in Cd-Doped Amorphous Arsenic Sulfide Thin Films. <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800298.	1.5	12
126	In-doped As ₂ Se ₃ thin films studied by Raman and X-ray photoelectron spectroscopies. <i>Applied Surface Science</i> , 2019, 471, 943-949.	6.1	13

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127	Structural and optical properties of (Cu ₆ PS ₅ Br) ₁ -(Cu ₇ PS ₆) mixed crystals. <i>Journal of Alloys and Compounds</i> , 2019, 782, 586-591.	5.5	10
128	Iron(III) β^2 -diketonates: CVD precursors for iron oxide film formation. <i>Inorganica Chimica Acta</i> , 2019, 487, 1-8.	2.4	13
129	Magnetic Tunnel Junctions: Laser Annealing Versus Oven Annealing. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-4.	2.1	7
130	Inherently Broadband Photoluminescence in Ag β -In β -S/ZnS Quantum Dots Observed in Ensemble and Single-Particle Studies. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2632-2641.	3.1	53
131	Defect Evolution of Ion-Exposed Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2496-2505.	3.1	4
132	Probing interlayer excitons in a vertical van der Waals p-n junction using a scanning probe microscopy technique. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 114001.	1.8	6
133	Raman evidence for surface oxidation of amorphous As ₂ S ₃ thin films under ultraviolet irradiation. <i>Applied Surface Science</i> , 2019, 467-468, 119-123.	6.1	8
134	Oxidation of Epitaxial Silicene on Ag(111). <i>Physica Status Solidi (B): Basic Research</i> , 2019, 256, 1800432.	1.5	13
135	Temperature Dependence of Raman-Active Modes of TlIn(0.95Se _{0.05}) ₂ Single Crystals. <i>Ukrainian Journal of Physics</i> , 2019, 64, 173.	0.2	2
136	Electronic and Optical Properties of the TlInS ₂ Crystal: Theoretical and Experimental Studies. <i>Acta Physica Polonica A</i> , 2019, 136, 640-644.	0.5	2
137	A new route to very stable water-soluble ultra-small core/shell CdSe/CdS quantum dots. <i>Nano Structures Nano Objects</i> , 2018, 13, 146-154.	3.5	22
138	Plasmonic Heating Plays a Dominant Role in the Plasmon-Induced Photocatalytic Reduction of 4-Nitrobenzenethiol. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5657-5663.	3.1	84
139	The combined magnetic field and iron oxide-PLGA composite particles: Effective protein antigen delivery and immune stimulation in dendritic cells. <i>Journal of Colloid and Interface Science</i> , 2018, 520, 101-111.	9.4	31
140	Origin of the Broadband Photoluminescence of Pristine and Cu ⁺ /Ag ⁺ -Doped Ultrasmall CdS and CdSe/CdS Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10267-10277.	3.1	37
141	Interaction of One-Dimensional Photonic Crystals and Metal Nanoparticle Arrays and Its Application for Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10153-10158.	3.1	24
142	Luminescence and photoelectrochemical properties of size-selected aqueous copper-doped Ag β -In β -S quantum dots. <i>RSC Advances</i> , 2018, 8, 7550-7557.	3.6	51
143	Aluminum and copper nanostructures for surface-enhanced Raman spectroscopy: A one-to-one comparison to silver and gold. <i>Sensors and Actuators B: Chemical</i> , 2018, 262, 922-927.	7.8	35
144	Nitrogen-containing porous carbon materials by twin polymerization. <i>Colloid and Polymer Science</i> , 2018, 296, 413-426.	2.1	6

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145	Origin and Dynamics of Highly Efficient Broadband Photoluminescence of Aqueous Glutathione-Capped Size-Selected Ag ⁺ /In ³⁺ S Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13648-13658.	3.1	88
146	Work Function and Conductivity of Inkjet-Printed Silver Layers: Effect of Inks and Post-treatments. <i>Journal of Electronic Materials</i> , 2018, 47, 2135-2142.	2.2	11
147	Teil 1: Der Druck eines Gases und das Vakuum. <i>Vakuum in Forschung Und Praxis</i> , 2018, 30, 50-51.	0.1	3
148	Bottom-up fabrication of graphene-based conductive polymer carpets for optoelectronics. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4919-4927.	5.5	9
149	B ₂ O ₃ /SiO ₂ /Phenolic Resin Hybrid Materials Produced by Simultaneous Twin Polymerization of Spiromonomers. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1700487.	2.2	5
150	Near-Infrared Cu ⁺ /In ³⁺ Se-Based Colloidal Nanocrystals via Cation Exchange. <i>Chemistry of Materials</i> , 2018, 30, 2607-2617.	6.7	45
151	Copper-surface-mediated synthesis of acetylenic carbon-rich nanofibers for active metal-free photocathodes. <i>Nature Communications</i> , 2018, 9, 1140.	12.8	115
152	Formation of CdSe nanocrystals in Cd-doped thin arsenic selenide films under laser irradiation. <i>Thin Solid Films</i> , 2018, 651, 163-169.	1.8	13
153	Surfaces functionalized by graphene oxide nanosheets for single cell investigations. <i>Sensors and Actuators B: Chemical</i> , 2018, 255, 1735-1743.	7.8	14
154	Giant gap-plasmon tip-enhanced Raman scattering of MoS ₂ monolayers on Au nanocluster arrays. <i>Nanoscale</i> , 2018, 10, 2755-2763.	5.6	70
155	Raman Scattering Study of Mixed Quaternary Ag _x Ga _x Ge _{1-x} Se ₂ (0.167 ≤ x ≤ 0.333) Crystals. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700230.	1.5	5
156	Polycrystalline La _{1-x} Sr _x MnO ₃ films on silicon: Influence of post-Deposition annealing on structural, (Magneto-)Optical, and (Magneto-)Electrical properties. <i>Applied Surface Science</i> , 2018, 427, 533-540.	6.1	7
157	Vibrational properties of GaSe: a layer dependent study from experiments to theory. <i>Semiconductor Science and Technology</i> , 2018, 33, 125008.	2.0	17
158	Nanoantenna structures for the detection of phonons in nanocrystals. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 2646-2656.	2.8	7
159	Raman characterization of Cu ₂ ZnSnS ₄ nanocrystals: phonon confinement effect and formation of Cu _x S phases. <i>RSC Advances</i> , 2018, 8, 30736-30746.	3.6	37
160	Vibrational spectroscopy of compound semiconductor nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 503001.	2.8	57
161	Green-Aqueous Synthesis and Advanced Spectral Characterization of Size-Selected Cu ₂ ZnSnS ₄ Nanocrystal Inks. <i>Scientific Reports</i> , 2018, 8, 13677.	3.3	39
162	Atomic Layer Deposition of Titanium Phosphate from Titanium Tetrachloride and Triethyl Phosphate onto Carbon Fibers. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800423.	3.7	10

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163	Low-temperature Raman studies of sulfur-rich TlIn(S _{1-x} Se _x) ₂ single crystals. <i>Vibrational Spectroscopy</i> , 2018, 97, 114-118.	2.2	4
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