

Moon Kim

List of Publications by Year in descending order

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129
papers

8,251
citations

87888

38
h-index

48315

88
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131
all docs

131
docs citations

131
times ranked

13082
citing authors

#	ARTICLE	IF	CITATIONS
1	MoS ₂ transistors with 1-nanometer gate lengths. <i>Science</i> , 2016, 354, 99-102.	12.6	1,140
2	Field-effect transistors made from solution-grown two-dimensional tellurene. <i>Nature Electronics</i> , 2018, 1, 228-236.	26.0	591
3	Atomically thin resonant tunnel diodes built from synthetic van der Waals heterostructures. <i>Nature Communications</i> , 2015, 6, 7311.	12.8	382
4	Manganese Doping of Monolayer MoS ₂ : The Substrate Is Critical. <i>Nano Letters</i> , 2015, 15, 6586-6591.	9.1	357
5	Highly Scalable, Atomically Thin WSe ₂ Grown <i>via</i> Metal-Organic Chemical Vapor Deposition. <i>ACS Nano</i> , 2015, 9, 2080-2087.	14.6	339
6	Covalent Nitrogen Doping and Compressive Strain in MoS ₂ by Remote N ₂ Plasma Exposure. <i>Nano Letters</i> , 2016, 16, 5437-5443.	9.1	323
7	Harvesting electrical energy from carbon nanotube yarn twist. <i>Science</i> , 2017, 357, 773-778.	12.6	306
8	Pd-Ir Core-Shell Nanocubes: A Type of Highly Efficient and Versatile Peroxidase Mimic. <i>ACS Nano</i> , 2015, 9, 9994-10004.	14.6	254
9	Direct Synthesis of van der Waals Solids. <i>ACS Nano</i> , 2014, 8, 3715-3723.	14.6	253
10	Conformal Al ₂ O ₃ dielectric layer deposited by atomic layer deposition for graphene-based nanoelectronics. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	245
11	Cowpea Mosaic Virus as a Scaffold for 3-D Patterning of Gold Nanoparticles. <i>Nano Letters</i> , 2004, 4, 867-870.	9.1	209
12	Atomic Layer-by-Layer Deposition of Platinum on Palladium Octahedra for Enhanced Catalysts toward the Oxygen Reduction Reaction. <i>ACS Nano</i> , 2015, 9, 2635-2647.	14.6	209
13	Ru Nanoframes with an fcc Structure and Enhanced Catalytic Properties. <i>Nano Letters</i> , 2016, 16, 2812-2817.	9.1	187
14	Giant polarization in super-tetragonal thin films through interphase strain. <i>Science</i> , 2018, 361, 494-497.	12.6	173
15	MoS ₂ functionalization for ultra-thin atomic layer deposited dielectrics. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	171
16	Kinetic Stability of Bulk LiNiO ₂ and Surface Degradation by Oxygen Evolution in LiNiO ₂ -Based Cathode Materials. <i>Advanced Energy Materials</i> , 2019, 9, 1802586.	19.5	160
17	Atomically Thin Heterostructures Based on Single-Layer Tungsten Diselenide and Graphene. <i>Nano Letters</i> , 2014, 14, 6936-6941.	9.1	132
18	Raman response and transport properties of tellurium atomic chains encapsulated in nanotubes. <i>Nature Electronics</i> , 2020, 3, 141-147.	26.0	126

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19	Nickelâ€“Platinum Nanoparticles as Peroxidase Mimics with a Record High Catalytic Efficiency. Journal of the American Chemical Society, 2021, 143, 2660-2664.	13.7	124
20	Defects and Surface Structural Stability of MoTe ₂ Under Vacuum Annealing. ACS Nano, 2017, 11, 11005-11014.	14.6	117
21	Ptâ€“Ni octahedral nanocrystals as a class of highly active electrocatalysts toward the hydrogen evolution reaction in an alkaline electrolyte. Journal of Materials Chemistry A, 2016, 4, 12392-12397.	10.3	103
22	Tailoring Renal Clearance and Tumor Targeting of Ultrasmall Metal Nanoparticles with Particle Density. Angewandte Chemie - International Edition, 2016, 55, 16039-16043.	13.8	92
23	Rapid Selective Etching of PMMA Residues from Transferred Graphene by Carbon Dioxide. Journal of Physical Chemistry C, 2013, 117, 23000-23008.	3.1	89
24	Synthesis of Ptâ€“Ni Octahedra in Continuous-Flow Droplet Reactors for the Scalable Production of Highly Active Catalysts toward Oxygen Reduction. Nano Letters, 2016, 16, 3850-3857.	9.1	86
25	Controllable growth of layered selenide and telluride heterostructures and superlattices using molecular beam epitaxy. Journal of Materials Research, 2016, 31, 900-910.	2.6	85
26	Remote heteroepitaxy of GaN microrod heterostructures for deformable light-emitting diodes and wafer recycle. Science Advances, 2020, 6, eaaz5180.	10.3	80
27	Photochemical Deposition of Highly Dispersed Pt Nanoparticles on Porous CeO ₂ Nanofibers for the Waterâ€“Gas Shift Reaction. Advanced Functional Materials, 2015, 25, 4153-4162.	14.9	75
28	Interface Chemistry of Contact Metals and Ferromagnets on the Topological Insulator Bi ₂ Se ₃ . Journal of Physical Chemistry C, 2017, 121, 23551-23563.	3.1	71
29	Highâ€“Mobility Helical Tellurium Fieldâ€“Effect Transistors Enabled by Transferâ€“Free, Lowâ€“Temperature Direct Growth. Advanced Materials, 2018, 30, e1803109.	21.0	71
30	Tailoring MWCNTs and Î²-Cyclodextrin for Sensitive Detection of Acetaminophen and Estrogen. ACS Applied Materials & Interfaces, 2018, 10, 21411-21427.	8.0	66
31	New Mo ₆ Te ₆ Subâ€“Nanometerâ€“Diameter Nanowire Phase from 2Hâ€“MoTe ₂ . Advanced Materials, 2017, 29, 1606264.	21.0	64
32	Stable and Active Oxidation Catalysis by Cooperative Lattice Oxygen Redox on SmMn ₂ O ₅ Mullite Surface. Journal of the American Chemical Society, 2019, 141, 10722-10728.	13.7	64
33	Studies of two-dimensional h-BN and MoS ₂ for potential diffusion barrier application in copper interconnect technology. Npj 2D Materials and Applications, 2017, 1, .	7.9	57
34	Coherent Interlayer Tunneling and Negative Differential Resistance with High Current Density in Double Bilayer Grapheneâ€“WSe ₂ Heterostructures. Nano Letters, 2017, 17, 3919-3925.	9.1	53
35	Atomically Controlled Tunable Doping in Highâ€“Performance WSe ₂ Devices. Advanced Electronic Materials, 2020, 6, 1901304.	5.1	46
36	Morphology-Invariant Metallic Nanoparticles with Tunable Plasmonic Properties. ACS Nano, 2021, 15, 2428-2438.	14.6	44

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37	Regulated Interfacial Thermal Conductance between Cu and Diamond by a TiC Interlayer for Thermal Management Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 26507-26517.	8.0	41
38	High stability of ultra-small and isolated gold nanoparticles in metal-organic framework materials. <i>Journal of Materials Chemistry A</i> , 2019, 7, 17536-17546.	10.3	41
39	Strain-Engineered Anisotropic Optical and Electrical Properties in 2D Chiral Chain Tellurium. <i>Advanced Materials</i> , 2020, 32, e2002342.	21.0	40
40	Template Regeneration in Galvanic Replacement: A Route to Highly Diverse Hollow Nanostructures. <i>ACS Nano</i> , 2020, 14, 791-801.	14.6	38
41	Fermi Level Manipulation through Native Doping in the Topological Insulator Bi_2Se_3 . <i>ACS Nano</i> , 2018, 12, 6310-6318.	14.6	37
42	Atomic and electronic structure of Lomer dislocations at CdTe bicrystal interface. <i>Scientific Reports</i> , 2016, 6, 27009.	3.3	35
43	Enhancing Interconnect Reliability and Performance by Converting Tantalum to 2D Layered Tantalum Sulfide at Low Temperature. <i>Advanced Materials</i> , 2019, 31, e1902397.	21.0	35
44	Low temperature synthesis of graphite on Ni films using inductively coupled plasma enhanced CVD. <i>Journal of Materials Chemistry C</i> , 2015, 3, 5192-5198.	5.5	34
45	Indium segregation in N-polar InGaN quantum wells evidenced by energy dispersive X-ray spectroscopy and atom probe tomography. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	34
46	Structural effect of two-dimensional BNNS on grain growth suppressing behaviors in Al-matrix nanocomposites. <i>Scientific Reports</i> , 2018, 8, 1614.	3.3	33
47	Strong Second Harmonic Generation in a Tungsten Bronze Oxide by Enhancing Local Structural Distortion. <i>Journal of the American Chemical Society</i> , 2020, 142, 7480-7486.	13.7	33
48	Solution synthesis of few-layer 2H MX_2 (M = Mo, W; X = S, Se). <i>Journal of Materials Chemistry C</i> , 2017, 5, 2859-2864.	5.5	32
49	A Mechanistic Study on the Nucleation and Growth of Au on Pd Seeds with a Cubic or Octahedral Shape. <i>ChemCatChem</i> , 2012, 4, 1668-1674.	3.7	28
50	Tailoring Renal Clearance and Tumor Targeting of Ultrasmall Metal Nanoparticles with Particle Density. <i>Angewandte Chemie</i> , 2016, 128, 16273-16277.	2.0	28
51	Sub-10 nm Tunable Hybrid Dielectric Engineering on MoS_2 for Two-Dimensional Material-Based Devices. <i>ACS Nano</i> , 2017, 11, 10243-10252.	14.6	28
52	Transferable, flexible white light-emitting diodes of GaN μn junction microcrystals fabricated by remote epitaxy. <i>Nano Energy</i> , 2021, 86, 106075.	16.0	27
53	Aberration Corrected Electron Microscopy Study of Bimetallic Pd-Pt Nanocrystal: Core-Shell Cubic and Core-Frame Concave Structures. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28876-28882.	3.1	26
54	Surface Energy-Driven Preferential Grain Growth of Metal Halide Perovskites: Effects of Nanoimprint Lithography Beyond Direct Patterning. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 5368-5378.	8.0	26

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55	Selective-Area Remote Epitaxy of ZnO Microrods Using Multilayered Monolayer-Patterned Graphene for Transferable and Flexible Device Fabrications. ACS Applied Nano Materials, 2020, 3, 8920-8930.	5.0	25
56	Effect of diamond surface chemistry and structure on the interfacial microstructure and properties of Al/diamond composites. RSC Advances, 2016, 6, 67252-67259.	3.6	24
57	MoS ₂ for Enhanced Electrical Performance of Ultrathin Copper Films. ACS Applied Materials & Interfaces, 2019, 11, 28345-28351.	8.0	24
58	Engineering the Palladium-WSe ₂ Interface Chemistry for Field Effect Transistors with High-Performance Hole Contacts. ACS Applied Nano Materials, 2019, 2, 75-88.	5.0	24
59	Atomic Layer Deposition of Layered Boron Nitride for Large-Area 2D Electronics. ACS Applied Materials & Interfaces, 2020, 12, 36688-36694.	8.0	22
60	Enhancement in external quantum efficiency of AlGaInP red ¼-LED using chemical solution treatment process. Scientific Reports, 2021, 11, 4535.	3.3	22
61	Creating a single twin boundary between two CdTe (111) wafers with controlled rotation angle by wafer bonding. Applied Physics Letters, 2013, 103, .	3.3	21
62	HIGHLY REPRODUCIBLE SINGLE POLYANILINE NANOWIRE USING ELECTROPHORESIS METHOD. Nano, 2008, 03, 75-82.	1.0	19
63	Metal-organic chemical vapor deposition of high quality, high indium composition N-polar InGaN layers for tunnel devices. Journal of Applied Physics, 2017, 121, 185707.	2.5	18
64	Stable and Bright Electroluminescent Devices utilizing Emissive OD Perovskite Nanocrystals Incorporated in a 3D CsPbBr ₃ Matrix. Advanced Materials, 2022, 34, .	21.0	18
65	Formation of hexagonal boron nitride on graphene-covered copper surfaces. Journal of Materials Research, 2016, 31, 945-958.	2.6	17
66	Metal-Organic-Inorganic Nanocomposite Thermal Interface Materials with Ultralow Thermal Resistances. ACS Applied Materials & Interfaces, 2017, 9, 10120-10127.	8.0	17
67	Metal-organic chemical vapor deposition of N-polar InN quantum dots and thin films on vicinal GaN. Journal of Applied Physics, 2018, 123, .	2.5	17
68	Stiffness measurement of nanosized liposomes using solid-state nanopore sensor with automated recapturing platform. Electrophoresis, 2019, 40, 1337-1344.	2.4	17
69	Epitaxial, electrooptically active barium titanate thin films on silicon by chemical solution deposition. Journal of the American Ceramic Society, 2020, 103, 1209-1218.	3.8	17
70	Sequential Plasma-Activated Bonding Mechanism of Silicon/Silicon Wafers. Journal of Microelectromechanical Systems, 2010, 19, 840-848.	2.5	16
71	Multiple consecutive recapture of rigid nanoparticles using a solid-state nanopore sensor. Electrophoresis, 2018, 39, 833-843.	2.4	16
72	Aluminum carbide hydrolysis induced degradation of thermal conductivity and tensile strength in diamond/aluminum composite. Journal of Composite Materials, 2018, 52, 2709-2717.	2.4	14

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73	Deformation behavior of nanocrystalline and ultrafine-grained CoCrCuFeNi high-entropy alloys. <i>Journal of Materials Research</i> , 2019, 34, 720-731.	2.6	14
74	Engineering Multilayered Nanocrystal Solids with Enhanced Optical Properties Using Metal Oxides for Photonic Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 6782-6789.	5.0	13
75	Piezoelectric modulation of nonlinear optical response in BaTiO ₃ thin film. <i>Applied Physics Letters</i> , 2018, 113, 132902.	3.3	13
76	Fabrication of hexagonal boron nitride based 2D nanopore sensor for the assessment of electrochemical responsiveness of human serum transferrin protein. <i>Electrophoresis</i> , 2020, 41, 630-637.	2.4	13
77	Dielectric dipole mitigated Schottky barrier height tuning using atomic layer deposited aluminum oxide for contact resistance reduction. <i>Applied Physics Letters</i> , 2011, 99, 102108.	3.3	12
78	Pd-Ru Bimetallic Nanocrystals with a Porous Structure and Their Enhanced Catalytic Properties. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1700386.	2.3	12
79	Quasi-CW Lasing from Directly Patterned and Encapsulated Perovskite Cavity at 260 K. <i>ACS Photonics</i> , 2022, 9, 1984-1991.	6.6	12
80	Al ₂ O ₃ on WSe ₂ by ozone based atomic layer deposition: Nucleation and interface study. <i>APL Materials</i> , 2017, 5, .	5.1	11
81	Controllable Ferromagnetism in Super-tetragonal PbTiO ₃ through Strain Engineering. <i>Nano Letters</i> , 2020, 20, 881-886.	9.1	11
82	Modification of the Electronic Transport in Atomically Thin WSe ₂ by Oxidation. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000422.	3.7	11
83	Quantitative Experimental Analysis of Schottky Barriers and Poole-Frenkel Emission in Carbon Nanotube Devices. <i>IEEE Nanotechnology Magazine</i> , 2009, 8, 355-360.	2.0	10
84	Annealing Temperature-Dependent Interfacial Behavior of Sequentially Plasma-Activated Silicon Bonded Wafers. <i>Journal of Microelectromechanical Systems</i> , 2011, 20, 17-20.	2.5	10
85	Low temperature (100°C) atomic layer deposited-ZrO ₂ for recessed gate GaN HEMTs on Si. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	10
86	Cubic crystalline erbium oxide growth on GaN(0001) by atomic layer deposition. <i>Journal of Applied Physics</i> , 2017, 122, .	2.5	10
87	Stabilization of a monolayer tellurene phase at CdTe interfaces. <i>Nanoscale</i> , 2019, 11, 14698-14706.	5.6	10
88	Detection of nucleotides in hydrated ssDNA via 2D h-BN nanopore with ionic liquid/salt-water interface. <i>Electrophoresis</i> , 2021, 42, 991-1002.	2.4	10
89	Hexagonal to monoclinic phase transformation in Eu ₂ O ₃ thin films grown on GaN (0001). <i>Applied Physics Letters</i> , 2017, 111, .	3.3	9
90	Composition and annealing effects on the linear electro-optic response of solution-deposited barium strontium titanate. <i>Journal of the American Ceramic Society</i> , 2020, 103, 5700-5705.	3.8	9

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91	Aqueous Synthesis of Pd-M (M = Pd, Pt, and Au) Decahedra with Concave Facets for Catalytic Applications. Topics in Catalysis, 2020, 63, 664-672.	2.8	9
92	Current anisotropy of carbon nanotube diodes: Voltage and work function dependence. Applied Physics Letters, 2010, 96, 263107.	3.3	8
93	Hydrogenated amorphous silicon nanowire transistors with Schottky barrier source/drain junctions. Applied Physics Letters, 2010, 97, .	3.3	8
94	Luminescent LaF ₃ :Ce-doped organically modified nanoporous silica xerogels. Journal of Applied Physics, 2013, 113, .	2.5	8
95	Inter-level carrier dynamics and photocurrent generation in large band gap quantum dot solar cell by multistep growth. Solar Energy Materials and Solar Cells, 2017, 171, 142-147.	6.2	8
96	Parallel Nanoimprint Forming of One-Dimensional Chiral Semiconductor for Strain-Engineered Optical Properties. Nano-Micro Letters, 2020, 12, 160.	27.0	8
97	Electro-optic response in epitaxially stabilized orthorhombic $\text{O}^2\text{O}^3\text{O}^3\text{O}^2$. Physical Review Materials, 2021, 5, .	2.4	8
98	Position-controlled remote epitaxy of ZnO for mass-transfer of as-deployed semiconductor microarrays. APL Materials, 2021, 9, .	5.1	8
99	Monolithic integration of transition metal oxide multiple quantum wells on silicon (001). Journal of Applied Physics, 2019, 125, 155302.	2.5	7
100	Three-Dimensional Integration of Functional Oxides and Crystalline Silicon for Optical Neuromorphic Computing Using Nanometer-Scale Oxygen Scavenging Barriers. ACS Applied Nano Materials, 2021, 4, 2153-2159.	5.0	7
101	Facet-selective morphology-controlled remote epitaxy of ZnO microcrystals via wet chemical synthesis. Scientific Reports, 2021, 11, 22697.	3.3	7
102	Role of template layers for heteroepitaxial growth of lanthanum oxide on GaN(0001) via atomic layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	5
103	Understanding the Impact of Wall Thickness on Thermal Stability of Silver-Gold Nanocages. Journal of Physical Chemistry C, 2022, 126, 7337-7345.	3.1	5
104	Thickness and Sphericity Control of Hollow Hard Silica Shells through Iron (III) Doping: Low Threshold Ultrasound Contrast Agents. Advanced Functional Materials, 2019, 29, 1900893.	14.9	4
105	Growth and Structure of Strong Pockels Material Strontium Barium Niobate on SrTiO ₃ and Si by Molecular Beam Epitaxy. Advanced Photonics Research, 2021, 2, 2100111.	3.6	4
106	DIRECT TWO-DIMENSIONAL ELECTRICAL MEASUREMENT USING POINT PROBING FOR DOPING AREA IDENTIFICATION OF NANODEVICE IN TEM. Nano, 2010, 05, 61-66.	1.0	3
107	Formation of graphene atop a Si adlayer on the C-face of SiC. Physical Review Materials, 2019, 3, .	2.4	3
108	Atomic Scale Study of Lomer-Cottrell and Hirth Lock Dislocations in CdTe. Microscopy and Microanalysis, 2015, 21, 2087-2088.	0.4	2

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109	In Situ Heating Study of 2H-MoTe ₂ to Mo ₆ Te ₆ Nanowire Phase Transition. <i>Microscopy and Microanalysis</i> , 2017, 23, 1764-1765.	0.4	2
110	Atomic-Resolution Study of Grain Boundaries in CdTe Using Scanning Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 102-103.	0.4	2
111	Indocyanine green modified silica shells for colon tumor marking. <i>Applied Surface Science</i> , 2020, 499, 143885.	6.1	2
112	Optimization of Digital Growth of Thick N-Polar InGaN by MOCVD. <i>Journal of Electronic Materials</i> , 2020, 49, 3450-3454.	2.2	2
113	Novel Polymorphic Phase of BaCu ₂ As ₂ : Impact of Flux for New Phase Formation in Crystal Growth. <i>Crystal Growth and Design</i> , 2020, 20, 5922-5930.	3.0	2
114	Surface energy induced patterning of polymer nanostructures for cancer diagnosis and therapy. , 2007, , .		1
115	Creating Single Boundary between Two CdTe (111) Wafers with Controlled Orientation by Wafer Bonding. <i>Microscopy and Microanalysis</i> , 2014, 20, 516-517.	0.4	1
116	Aberration Corrected High Angle Annular Dark Field (HAADF) Scanning Transmission Electron Microscopy (STEM) and In Situ Transmission Electron Microscopy (TEM) Study of Transition Metal Dichalcogenides (TMDs). <i>Microscopy and Microanalysis</i> , 2015, 21, 431-432.	0.4	1
117	Simple Specimen Preparation Method for In Situ Heating Experiments. <i>Microscopy and Microanalysis</i> , 2016, 22, 132-133.	0.4	1
118	Leveraging First Principles Modeling and Machine Learning for Microscopy Data Inversion. <i>Microscopy and Microanalysis</i> , 2017, 23, 178-179.	0.4	1
119	A Method to Prepare TEM Specimens by Focused Ion Beam Milling for Cu/diamond Composites. <i>Microscopy and Microanalysis</i> , 2018, 24, 838-839.	0.4	1
120	InAs/AlGaAs quantum dots grown by a novel molecular beam epitaxy multistep design for intermediate band solar cells: physical insight into the structure, composition, strain and optical properties. <i>CrystEngComm</i> , 2019, 21, 4644-4652.	2.6	1
121	Thermal mapping of Delphi thermal test dies. , 2011, , .		0
122	Characterization of Poly-Crystalline CdTe Solar Cells Using Aberration-Corrected Transmission Electron Microscope. <i>Microscopy and Microanalysis</i> , 2014, 20, 522-523.	0.4	0
123	In-Situ Studies of Thermal Stability of Core-Frame Cubic Pd-Rh Nanocrystals at Elevated Temperatures. <i>Microscopy and Microanalysis</i> , 2014, 20, 1632-1633.	0.4	0
124	Growth Morphology and Defects in 2D Heterostructures and Interfaces. <i>Microscopy and Microanalysis</i> , 2015, 21, 101-102.	0.4	0
125	A fundamental study of the effects of grain boundaries on performance of poly-crystalline thin film CdTe solar cells. , 2015, , .		0
126	Aberration-Corrected STEM and Tomography of Pd-Pt Nanoparticles: Core-Shell Cubic and Core-Frame Concave Structures. <i>Microscopy and Microanalysis</i> , 2015, 21, 1731-1732.	0.4	0

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127	Aberration-Corrected STEM Study of Shape Controlled Metallic Core-Shell Nanoparticles for Catalytic Applications. <i>Microscopy and Microanalysis</i> , 2017, 23, 1852-1853.	0.4	0
128	Probing Nanoscale Local Lattice Strains in Semiconductor Nanostructures and Devices by Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 972-973.	0.4	0
129	Growth and Structure of Strong Pockels Material Strontium Barium Niobate on SrTiO ₃ and Si by Molecular Beam Epitaxy. <i>Advanced Photonics Research</i> , 2021, 2, 2170035.	3.6	0