

Jeunghee Park

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99
papers

3,875
citations

30
h-index

60
g-index

106
ext. papers

4,458
ext. citations

7.6
avg, IF

5.42
L-index

#	Paper	IF	Citations
99	Reversible Halide Exchange Reaction of Organometal Trihalide Perovskite Colloidal Nanocrystals for Full-Range Band Gap Tuning. <i>Nano Letters</i> , 2015 , 15, 5191-9	11.5	359
98	CoSe ₂ and NiSe ₂ Nanocrystals as Superior Bifunctional Catalysts for Electrochemical and Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 5327-34	9.5	334
97	Growth model of bamboo-shaped carbon nanotubes by thermal chemical vapor deposition. <i>Applied Physics Letters</i> , 2000 , 77, 3397-3399	3.4	227
96	FeP and FeP ₂ nanowires for efficient electrocatalytic hydrogen evolution reaction. <i>Chemical Communications</i> , 2016 , 52, 2819-22	5.8	208
95	Vertically Aligned Sulfur-Doped ZnO Nanowires Synthesized via Chemical Vapor Deposition. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 5206-5210	3.4	180
94	Light-Matter Interactions in Cesium Lead Halide Perovskite Nanowire Lasers. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3703-10	6.4	164
93	Red-to-Ultraviolet Emission Tuning of Two-Dimensional Gallium Sulfide/Selenide. <i>ACS Nano</i> , 2015 , 9, 9585-93	16.7	121
92	Nitrogen-Doped Graphitic Layers Deposited on Silicon Nanowires for Efficient Lithium-Ion Battery Anodes. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9451-9457	3.8	118
91	Ultrasound synthesis of lead halide perovskite nanocrystals. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 10625-10629	7.1	99
90	Electronic Structure of Vertically Aligned Mn-Doped CoFe ₂ O ₄ Nanowires and Their Application as Humidity Sensors and Photodetectors. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 7085-7090	3.8	88
89	Synthesis of Au@Cu ₂ S Core-Shell Nanocrystals and Their Photocatalytic and Electrocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22141-22146	3.8	85
88	Surface engineered CuO nanowires with ZnO islands for CO ₂ photoreduction. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 5685-92	9.5	84
87	Transition-Metal Doping of Oxide Nanocrystals for Enhanced Catalytic Oxygen Evolution. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 1921-1927	3.8	80
86	Germanium and Tin Selenide Nanocrystals for High-Capacity Lithium Ion Batteries: Comparative Phase Conversion of Germanium and Tin. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 21884-21888	3.8	67
85	CdSSe layer-sensitized TiO ₂ nanowire arrays as efficient photoelectrodes. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4553		63
84	Shape Evolution of ZnTe Nanocrystals: Nanoflowers, Nanodots, and Nanorods. <i>Chemistry of Materials</i> , 2007 , 19, 4670-4675	9.6	62
83	Growth Model for Bamboolike Structured Carbon Nanotubes Synthesized Using Thermal Chemical Vapor Deposition. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 2365-2368	3.4	58

82	Comparative Photocatalytic Ability of Nanocrystal-Carbon Nanotube and -TiO ₂ Nanocrystal Hybrid Nanostructures. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 19966-19972	3.8	57
81	Zn ₂ GeO ₄ and Zn ₂ SnO ₄ nanowires for high-capacity lithium- and sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10691-10699	13	56
80	Se-Rich MoSe Nanosheets and Their Superior Electrocatalytic Performance for Hydrogen Evolution Reaction. <i>ACS Nano</i> , 2020 , 14, 6295-6304	16.7	55
79	Size-dependent thermal conductivity of individual single-crystalline PbTe nanowires. <i>Applied Physics Letters</i> , 2010 , 96, 103101	3.4	54
78	Electronic Structure of Si-Doped BN Nanotubes Using X-ray Photoelectron Spectroscopy and First-Principles Calculation. <i>Chemistry of Materials</i> , 2009 , 21, 136-143	9.6	52
77	Selective Nitrogen-Doping Structure of Nanosize Graphitic Layers. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 3737-3744	3.8	49
76	Composition and Phase Tuned InGaAs Alloy Nanowires. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7843-7850	3.8	46
75	High-Yield Gas-Phase Laser Photolysis Synthesis of Germanium Nanocrystals for High-Performance Photodetectors and Lithium Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26190-26196	3.8	43
74	Ruthenium Nanoparticles on Cobalt-Doped 1TSPHase MoS Nanosheets for Overall Water Splitting. <i>Small</i> , 2020 , 16, e2000081	11	41
73	Chemical Conversion Reaction between CdS Nanobelts and ZnS Nanobelts by Vapor Transport. <i>Chemistry of Materials</i> , 2007 , 19, 4663-4669	9.6	41
72	Intercalation of aromatic amine for the 2H-1TSPHase transition of MoS by experiments and calculations. <i>Nanoscale</i> , 2018 , 10, 11349-11356	7.7	41
71	Facile phase and composition tuned synthesis of tin chalcogenide nanocrystals. <i>RSC Advances</i> , 2013 , 3, 10349	3.7	37
70	Two-dimensional GeAs with a visible range band gap. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9089-9098	3	33
69	Nitrogen-rich 1TSMoS layered nanostructures using alkyl amines for high catalytic performance toward hydrogen evolution. <i>Nanoscale</i> , 2018 , 10, 14726-14735	7.7	29
68	Orthorhombic NiSe Nanocrystals on Si Nanowires for Efficient Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33198-33204	9.5	29
67	Thickness-dependent bandgap and electrical properties of GeP nanosheets. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16526-16532	13	28
66	IrO ₂ /ZnO Hybrid Nanoparticles as Highly Efficient Trifunctional Electrocatalysts. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 14899-14906	3.8	28
65	Transformation of ZnTe nanowires to CdTe nanowires through the formation of ZnCdTe/CdTe core-shell structure by vapor transport. <i>Journal of Materials Chemistry</i> , 2008 , 18, 875		28

- 64 Synthesis of gallium phosphide nanowires via sublimation method. *Chemical Communications*, **2002**, 2564-2565
- 63 Stable methylammonium-intercalated 1T'-MoS₂ for efficient electrocatalytic hydrogen evolution. *Journal of Materials Chemistry A*, **2018**, 6, 5613-5617 13 27
- 62 Polytypic ZnCdSe shell layer on a ZnO nanowire array for enhanced solar cell efficiency. *Journal of Materials Chemistry*, **2012**, 22, 2157-2165 27
- 61 Arsenic for high-capacity lithium- and sodium-ion batteries. *Nanoscale*, **2018**, 10, 7047-7057 7.7 26
- 60 Phase Evolution of ReMoSe Alloy Nanosheets and Their Enhanced Catalytic Activity toward Hydrogen Evolution Reaction. *ACS Nano*, **2020**, 14, 11995-12005 16.7 25
- 59 Selective electrochemical reduction of carbon dioxide to formic acid using indium-zinc bimetallic nanocrystals. *Journal of Materials Chemistry A*, **2019**, 7, 22879-22883 13 25
- 58 Multiple silicon nanowires-embedded Schottky solar cell. *Applied Physics Letters*, **2009**, 95, 143112 3.4 24
- 57 Solvent controlled synthesis of new hematite superstructures with large coercive values. *CrystEngComm*, **2012**, 14, 2024 3.3 23
- 56 Nb₂O₅ nanowire photoanode sensitized by a composition-tuned CdS_xSe_{1-x} shell. *Journal of Materials Chemistry*, **2012**, 22, 8413 22
- 55 Intercalated complexes of 1T'-MoS₂ nanosheets with alkylated phenylenediamines as excellent catalysts for electrochemical hydrogen evolution. *Journal of Materials Chemistry A*, **2019**, 7, 2334-2343 13 21
- 54 Hydrogen Bonding Ability of Azabenzenes toward Thioacetamide, Acetamide, and Water. *Journal of Physical Chemistry A*, **2004**, 108, 921-927 2.8 21
- 53 Adatom Doping of Transition Metals in ReSe Nanosheets for Enhanced Electrocatalytic Hydrogen Evolution Reaction. *ACS Nano*, **2020**, 14, 12184-12194 16.7 21
- 52 Two-dimensional MoS₂/Fe-phthalocyanine hybrid nanostructures as excellent electrocatalysts for hydrogen evolution and oxygen reduction reactions. *Nanoscale*, **2019**, 11, 14266-14275 7.7 20
- 51 Band Gap Tuning of Twinned GaAsP Ternary Nanowires. *Journal of Physical Chemistry C*, **2014**, 118, 4546-4552 3.5 20
- 50 Photoluminescence and Photocurrents of GaS_{1-x}Sex Nanobelts. *Chemistry of Materials*, **2016**, 28, 5811-5820 9.2 19
- 49 Intercalation of cobaltocene into WS₂ nanosheets for enhanced catalytic hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2019**, 7, 8101-8106 13 18
- 48 Zn_{1-x}As_x solid solution nanowires. *Nano Letters*, **2015**, 15, 990-7 11.5 18
- 47 Energy Relaxation Dynamics of Photoexcited C₆₀ Solid. *The Journal of Physical Chemistry*, **1996**, 100, 9223-9226 18

46	Two-Dimensional WS@Nitrogen-Doped Graphite for High-Performance Lithium Ion Batteries: Experiments and Molecular Dynamics Simulations. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37928-37936	9.5	18
45	Strain Mapping and Raman Spectroscopy of Bent GaP and GaAs Nanowires. <i>ACS Omega</i> , 2018 , 3, 3129-3135	3.5	17
44	Morphology-Tuned Synthesis of Single-Crystalline V5Si3 Nanotubes and Nanowires. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 12996-13001	3.8	17
43	Morphology-Tuned Growth of MnSe One-Dimensional Nanostructures. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 519-525	3.8	17
42	Concurrent Vacancy and Adatom Defects of MoNbSe Alloy Nanosheets Enhance Electrochemical Performance of Hydrogen Evolution Reaction. <i>ACS Nano</i> , 2021 , 15, 5467-5477	16.7	17
41	Surface-Modified TaN Nanocrystals with Boron for Enhanced Visible-Light-Driven Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36715-36722	9.5	15
40	Ternary alloy nanocrystals of tin and germanium chalcogenides. <i>RSC Advances</i> , 2014 , 4, 15695-15701	3.7	15
39	Bent Polytypic ZnSe and CdSe Nanowires Probed by Photoluminescence. <i>Small</i> , 2017 , 13, 1603695	11	14
38	Size and Phase Controlled Synthesis of CdSe/ZnS Core/Shell Nanocrystals Using Ionic Liquid and Their Reduced Graphene Oxide Hybrids as Promising Transparent Optoelectronic Films. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 15311-15317	3.8	13
37	Direct Synthesis of Gallium Nitride Nanowires Coated with Boron Carbonitride Layers. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 6739-6742	3.4	13
36	Two dimensional MoS meets porphyrins via intercalation to enhance the electrocatalytic activity toward hydrogen evolution. <i>Nanoscale</i> , 2019 , 11, 3780-3785	7.7	12
35	Doping Mechanism in Transparent, Conducting Tantalum Doped ZnO Films Deposited Using Atomic Layer Deposition. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600496	4.6	12
34	Anisotropic 2D SiAs for High-Performance UV-Visible Photodetectors. <i>Small</i> , 2021 , 17, e2006310	11	12
33	Nickel phosphide polymorphs with an active (001) surface as excellent catalysts for water splitting. <i>CrystEngComm</i> , 2019 , 21, 1143-1149	3.3	11
32	In Situ Temperature-Dependent Transmission Electron Microscopy Studies of Pseudobinary mGeTe _{1-m} Bi _m Te _{1-m} (m = 3-8) Nanowires and First-Principles Calculations. <i>Nano Letters</i> , 2015 , 15, 3923-30	11.5	11
31	Quantum Dots Formed in Three-dimensional Dirac Semimetal CdAs Nanowires. <i>Nano Letters</i> , 2018 , 18, 1863-1868	11.5	11
30	Gas-phase substitution synthesis of Cu _{1.8} S and Cu ₂ S superlattice nanowires from CdS nanowires. <i>CrystEngComm</i> , 2011 , 13, 2091	3.3	11
29	Semiconductor nanowires surrounded by cylindrical Al ₂ O ₃ shells. <i>Journal of Electronic Materials</i> , 2003 , 32, 1344-1348	1.9	11

28	Nickel sulfide nanocrystals for electrochemical and photoelectrochemical hydrogen generation. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 3240-3247	7.1	10
27	MnGa ₂ O ₄ and Zn-doped MnGa ₂ O ₄ 1-Dimensional Nanostructures. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 12207-12212	3.8	9
26	Two-dimensional MoS ₂ /ethelamine hybrid nanostructures for enhanced catalytic hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22571-22578	13	8
25	Phase Controlled Growth of CdAs Nanowires and Their Negative Photoconductivity. <i>Nano Letters</i> , 2020 , 20, 4939-4946	11.5	8
24	Synthesis of Polytypic Gallium Phosphide and Gallium Arsenide Nanowires and Their Application as Photodetectors. <i>ACS Omega</i> , 2019 , 4, 3098-3104	3.9	7
23	Anisotropic alloying of Re _{1-x} Mo _x S ₂ nanosheets to boost the electrochemical hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25131-25141	13	7
22	Phase-Transition MoVSe Alloy Nanosheets with Rich V-Se Vacancies and Their Enhanced Catalytic Performance of Hydrogen Evolution Reaction. <i>ACS Nano</i> , 2021 , 15, 14672-14682	16.7	7
21	Vertically Aligned Mn-doped Fe ₃ O ₄ Nanowire Arrays: Magnetic Properties and Gas Sensing at Room Temperature. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1032, 1		4
20	Chalcogen-vacancy group VI transition metal dichalcogenide nanosheets for electrochemical and photoelectrochemical hydrogen evolution. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 101-109	7.1	4
19	GaAsSe Ternary Alloy Nanowires for Enhanced Photoconductivity. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 3908-3915	3.8	2
18	Controllable p-n junctions in three-dimensional Dirac semimetal CdAs nanowires. <i>Nanotechnology</i> , 2020 , 31, 205001	3.4	2
17	The Optoelectronic Properties of PbS Nanowire Field-Effect Transistors. <i>IEEE Nanotechnology Magazine</i> , 2013 , 12, 1135-1138	2.6	2
16	Composition-tuned Sn _x Ge _{1-x} S nanocrystals for enhanced-performance lithium ion batteries. <i>RSC Advances</i> , 2014 , 4, 60058-60063	3.7	2
15	Direct synthesis of aligned silicon carbide nanowires from the silicon substrates. <i>Chemical Communications</i> , 2003 , 256-7	5.8	2
14	The Catalytic Effect on Vertically Aligned Carbon Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 800, 121		2
13	Controlled Structure of Gallium Oxide and Indium Oxide Nanowires. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 789, 103		2
12	Terahertz spectroscopy of platinum, copper sulfide, and tin oxide nanocrystals-carbon nanotube hybrid nanostructures 2009 ,		1
11	Ferromagnetic Ge _{1-x} M _x (M = Mn, Co, and Fe) Nanowires. <i>Materials Research Society Symposia Proceedings</i> , 2007 , 1032, 1		0

- 10 Three Synthesis Routes of Single-Crystalline PbS Nanowires and Their Electrical Transport Properties. *Materials Research Society Symposia Proceedings*, **2010**, 1258, 1
- 9 ZnO-CdZnS Core-Shell Nanocable Arrays for Highly Efficient Photoelectrochemical Hydrogen Generation. *Materials Research Society Symposia Proceedings*, **2010**, 1256, 1
- 8 Terahertz Emission from Vertically-aligned Silicon Nanowires. *Materials Research Society Symposia Proceedings*, **2010**, 1258, 1
- 7 Three-Dimensional Structure of Twinned and Zigzagged One-Dimensional Nanostructures Using Electron Tomography. *Materials Research Society Symposia Proceedings*, **2010**, 1262, 1
- 6 Three-Dimensional Structure of Helical and Zigzagged Nanowires Using Electron Tomography. *Materials Research Society Symposia Proceedings*, **2008**, 1144, 1
- 5 GaP Nanostructures: Nanowires, Nanobelts, Nanocables, and Nanocapsules. *Materials Research Society Symposia Proceedings*, **2003**, 789, 97
- 4 Control of Morphology and Growth Direction of Gallium Nitride Nanostructures. *Materials Research Society Symposia Proceedings*, **2003**, 789, 109
- 3 Synthesis of Silicon Nanowires and their Heterostructures by Thermal Chemical Vapor Deposition. *Materials Research Society Symposia Proceedings*, **2005**, 879, 1
- 2 Short-Period Superlattice Structure of Sn-doped $\text{In}_2\text{O}_3(\text{ZnO})_4$ and $\text{In}_2\text{O}_3(\text{ZnO})_5$ Nanowires. *Materials Research Society Symposia Proceedings*, **2005**, 879, 1
- 1 Ferromagnetic Mn-Doped GaN Nanowires for Nanospintronics. *Materials Research Society Symposia Proceedings*, **2005**, 877, 1