Jeunghee Park

List of Publications by Year in Descending Order

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	Concurrent Vacancy and Adatom Defects of MoNbSe Alloy Nanosheets Enhance Electrochemical Performance of Hydrogen Evolution Reaction. *ACS Nano*, **2021**, 15, 5467-5477	16.7	17
98	Chalcogen-vacancy group VI transition metal dichalcogenide nanosheets for electrochemical and photoelectrochemical hydrogen evolution. *Journal of Materials Chemistry C*, **2021**, 9, 101-109	7.1	4
97	Anisotropic 2D SiAs for High-Performance UV-Visible Photodetectors. *Small*, **2021**, 17, e2006310	11	12
96	Phase-Transition MoVSe Alloy Nanosheets with Rich V-Se Vacancies and Their Enhanced Catalytic Performance of Hydrogen Evolution Reaction. *ACS Nano*, **2021**, 15, 14672-14682	16.7	7
95	Phase Controlled Growth of CdAs Nanowires and Their Negative Photoconductivity. *Nano Letters*, **2020**, 20, 4939-4946	11.5	8
94	Ruthenium Nanoparticles on Cobalt-Doped 1TSPhase MoS Nanosheets for Overall Water Splitting. *Small*, **2020**, 16, e2000081	11	41
93	Nickel sulfide nanocrystals for electrochemical and photoelectrochemical hydrogen generation. *Journal of Materials Chemistry C*, **2020**, 8, 3240-3247	7.1	10
92	Controllable p-n junctions in three-dimensional Dirac semimetal CdAs nanowires. *Nanotechnology*, **2020**, 31, 205001	3.4	2
91	Se-Rich MoSe Nanosheets and Their Superior Electrocatalytic Performance for Hydrogen Evolution Reaction. *ACS Nano*, **2020**, 14, 6295-6304	16.7	55
90	Anisotropic alloying of Re1⊠MoxS2 nanosheets to boost the electrochemical hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2020**, 8, 25131-25141	13	7
89	Adatom Doping of Transition Metals in ReSe Nanosheets for Enhanced Electrocatalytic Hydrogen Evolution Reaction. *ACS Nano*, **2020**, 14, 12184-12194	16.7	21
88	Phase Evolution of ReMoSe Alloy Nanosheets and Their Enhanced Catalytic Activity toward Hydrogen Evolution Reaction. *ACS Nano*, **2020**, 14, 11995-12005	16.7	25
87	Two-dimensional MoS2⊟helamine hybrid nanostructures for enhanced catalytic hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2019**, 7, 22571-22578	13	8
86	GaAsSe Ternary Alloy Nanowires for Enhanced Photoconductivity. *Journal of Physical Chemistry C*, **2019**, 123, 3908-3915	3.8	2
85	Nickel phosphide polymorphs with an active (001) surface as excellent catalysts for water splitting. *CrystEngComm*, **2019**, 21, 1143-1149	3.3	11
84	Two dimensional MoS meets porphyrins via intercalation to enhance the electrocatalytic activity toward hydrogen evolution. *Nanoscale*, **2019**, 11, 3780-3785	7.7	12
83	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

82	Thickness-dependent bandgap and electrical properties of GeP nanosheets. *Journal of Materials Chemistry A*, **2019**, 7, 16526-16532	13	28
81	Intercalation of cobaltocene into WS2 nanosheets for enhanced catalytic hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2019**, 7, 8101-8106	13	18
80	Synthesis of Polytypic Gallium Phosphide and Gallium Arsenide Nanowires and Their Application as Photodetectors. *ACS Omega*, **2019**, 4, 3098-3104	3.9	7
79	Two-dimensional MoS/Fe-phthalocyanine hybrid nanostructures as excellent electrocatalysts for hydrogen evolution and oxygen reduction reactions. *Nanoscale*, **2019**, 11, 14266-14275	7.7	20
78	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
77	Stable methylammonium-intercalated 1T?-MoS2 for efficient electrocatalytic hydrogen evolution. *Journal of Materials Chemistry A*, **2018**, 6, 5613-5617	13	27
76	Quantum Dots Formed in Three-dimensional Dirac Semimetal CdAs Nanowires. *Nano Letters*, **2018**, 18, 1863-1868	11.5	11
75	Two-dimensional GeAs with a visible range band gap. *Journal of Materials Chemistry A*, **2018**, 6, 9089-9098	13	33
74	Strain Mapping and Raman Spectroscopy of Bent GaP and GaAs Nanowires. *ACS Omega*, **2018**, 3, 3129-3135	3.9	17
73	Arsenic for high-capacity lithium- and sodium-ion batteries. *Nanoscale*, **2018**, 10, 7047-7057	7.7	26
72	Nitrogen-rich 1TSMoS layered nanostructures using alkyl amines for high catalytic performance toward hydrogen evolution. *Nanoscale*, **2018**, 10, 14726-14735	7.7	29
71	Two-Dimensional WS@Nitrogen-Doped Graphite for High-Performance Lithium Ion Batteries: Experiments and Molecular Dynamics Simulations. *ACS Applied Materials & Interfaces*, **2018**, 10, 37928-37936	9.5	18
70	Orthorhombic NiSe Nanocrystals on Si Nanowires for Efficient Photoelectrochemical Water Splitting. *ACS Applied Materials & Interfaces*, **2018**, 10, 33198-33204	9.5	29
69	Intercalation of aromatic amine for the 2H-1TSphase transition of MoS by experiments and calculations. *Nanoscale*, **2018**, 10, 11349-11356	7.7	41
68	Bent Polytypic ZnSe and CdSe Nanowires Probed by Photoluminescence. *Small*, **2017**, 13, 1603695	11	14
67	Surface-Modified TaN Nanocrystals with Boron for Enhanced Visible-Light-Driven Photoelectrochemical Water Splitting. *ACS Applied Materials & Interfaces*, **2017**, 9, 36715-36722	9.5	15
66	IrO2□nO Hybrid Nanoparticles as Highly Efficient Trifunctional Electrocatalysts. *Journal of Physical Chemistry C*, **2017**, 121, 14899-14906	3.8	28
65	Ultrasound synthesis of lead halide perovskite nanocrystals. *Journal of Materials Chemistry C*, **2016**, 4, 10625-10629	7.1	99

64	Zn2GeO4 and Zn2SnO4 nanowires for high-capacity lithium- and sodium-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 10691-10699	13	56
63	FeP and FeP2 nanowires for efficient electrocatalytic hydrogen evolution reaction. *Chemical Communications*, **2016**, 52, 2819-22	5.8	208
62	CoSe and NiSe Nanocrystals as Superior Bifunctional Catalysts for Electrochemical and Photoelectrochemical Water Splitting. *ACS Applied Materials & Interfaces*, **2016**, 8, 5327-34	9.5	334
61	Light-Matter Interactions in Cesium Lead Halide Perovskite Nanowire Lasers. *Journal of Physical Chemistry Letters*, **2016**, 7, 3703-10	6.4	164
60	Doping Mechanism in Transparent, Conducting Tantalum Doped ZnO Films Deposited Using Atomic Layer Deposition. *Advanced Materials Interfaces*, **2016**, 3, 1600496	4.6	12
59	Photoluminescence and Photocurrents of GaS1 Sex Nanobelts. *Chemistry of Materials*, **2016**, 28, 5811-5820	9.0	19
58	Surface engineered CuO nanowires with ZnO islands for CO2 photoreduction. *ACS Applied Materials & Interfaces*, **2015**, 7, 5685-92	9.5	84
57	Reversible Halide Exchange Reaction of Organometal Trihalide Perovskite Colloidal Nanocrystals for Full-Range Band Gap Tuning. *Nano Letters*, **2015**, 15, 5191-9	11.5	359
56	In Situ Temperature-Dependent Transmission Electron Microscopy Studies of Pseudobinary mGeTe Bi Te (m = 3-8) Nanowires and First-Principles Calculations. *Nano Letters*, **2015**, 15, 3923-30	11.5	11
55	Red-to-Ultraviolet Emission Tuning of Two-Dimensional Gallium Sulfide/Selenide. *ACS Nano*, **2015**, 9, 9585-93	16.7	121
54	Transition-Metal Doping of Oxide Nanocrystals for Enhanced Catalytic Oxygen Evolution. *Journal of Physical Chemistry C*, **2015**, 119, 1921-1927	3.8	80
53	ZnP Zn As solid solution nanowires. *Nano Letters*, **2015**, 15, 990-7	11.5	18
52	Ternary alloy nanocrystals of tin and germanium chalcogenides. *RSC Advances*, **2014**, 4, 15695-15701	3.7	15
51	Band Gap Tuning of Twinned GaAsP Ternary Nanowires. *Journal of Physical Chemistry C*, **2014**, 118, 4546-4552	3.8	20
50	Germanium and Tin Selenide Nanocrystals for High-Capacity Lithium Ion Batteries: Comparative Phase Conversion of Germanium and Tin. *Journal of Physical Chemistry C*, **2014**, 118, 21884-21888	3.8	67
49	Composition-tuned SnxGe1 S nanocrystals for enhanced-performance lithium ion batteries. *RSC Advances*, **2014**, 4, 60058-60063	3.7	2
48	The Optoelectronic Properties of PbS Nanowire Field-Effect Transistors. *IEEE Nanotechnology Magazine*, **2013**, 12, 1135-1138	2.6	2
47	Facile phase and composition tuned synthesis of tin chalcogenide nanocrystals. *RSC Advances*, **2013**, 3, 10349	3.7	37

46	Polytypic ZnCdSe shell layer on a ZnO nanowire array for enhanced solar cell efficiency. *Journal of Materials Chemistry*, **2012**, 22, 2157-2165		27
45	Nb2O5 nanowire photoanode sensitized by a composition-tuned CdSxSe1⊠ shell. *Journal of Materials Chemistry*, **2012**, 22, 8413		22
44	High-Yield Gas-Phase Laser Photolysis Synthesis of Germanium Nanocrystals for High-Performance Photodetectors and Lithium Ion Batteries. *Journal of Physical Chemistry C*, **2012**, 116, 26190-26196	3.8	43
43	Solvent controlled synthesis of new hematite superstructures with large coercive values. *CrystEngComm*, **2012**, 14, 2024	3.3	23
42	Nitrogen-Doped Graphitic Layers Deposited on Silicon Nanowires for Efficient Lithium-Ion Battery Anodes. *Journal of Physical Chemistry C*, **2011**, 115, 9451-9457	3.8	118
41	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. *Journal of Physical Chemistry C*, **2011**, 115, 15311-15317	3.8	13
40	Gas-phase substitution synthesis of Cu1.8S and Cu2S superlattice nanowires from CdS nanowires. *CrystEngComm*, **2011**, 13, 2091	3.3	11
39	CdSSe layer-sensitized TiO2 nanowire arrays as efficient photoelectrodes. *Journal of Materials Chemistry*, **2011**, 21, 4553		63
38	Composition and Phase Tuned InGaAs Alloy Nanowires. *Journal of Physical Chemistry C*, **2011**, 115, 7843-7850	3.8	46
37	Selective Nitrogen-Doping Structure of Nanosize Graphitic Layers. *Journal of Physical Chemistry C*, **2011**, 115, 3737-3744	3.8	49
36	Three Synthesis Routes of Single-Crystalline PbS Nanowires and Their Electrical Transport Properties. *Materials Research Society Symposia Proceedings*, **2010**, 1258, 1		
35	ZnO-CdZnS Core-Shell Nanocable Arrays for Highly Efficient Photoelectrochemical Hydrogen Generation. *Materials Research Society Symposia Proceedings*, **2010**, 1256, 1		
34	Terahertz Emission from Vertically-aligned Silicon Nanowires. *Materials Research Society Symposia Proceedings*, **2010**, 1258, 1		
33	Three-Dimensional Structure of Twinned and Zigzagged One-Dimensional Nanostructures Using Electron Tomography. *Materials Research Society Symposia Proceedings*, **2010**, 1262, 1		
32	Size-dependent thermal conductivity of individual single-crystalline PbTe nanowires. *Applied Physics Letters*, **2010**, 96, 103101	3.4	54
31	Synthesis of Au□Cu2S Core⊠Shell Nanocrystals and Their Photocatalytic and Electrocatalytic Activity. *Journal of Physical Chemistry C*, **2010**, 114, 22141-22146	3.8	85
30	Terahertz spectroscopy of platinum, copper sulfide, and tin oxide nanocrystals-carbon nanotube hybrid nanostructures **2009**,		1
29	Multiple silicon nanowires-embedded Schottky solar cell. *Applied Physics Letters*, **2009**, 95, 143112	3.4	24

28	Comparative Photocatalytic Ability of Nanocrystal-Carbon Nanotube and -TiO2 Nanocrystal Hybrid Nanostructures. *Journal of Physical Chemistry C*, **2009**, 113, 19966-19972	3.8	57
27	Morphology-Tuned Synthesis of Single-Crystalline V5Si3 Nanotubes and Nanowires. *Journal of Physical Chemistry C*, **2009**, 113, 12996-13001	3.8	17
26	Electronic Structure of Si-Doped BN Nanotubes Using X-ray Photoelectron Spectroscopy and First-Principles Calculation. *Chemistry of Materials*, **2009**, 21, 136-143	9.6	52
25	Electronic Structure of Vertically Aligned Mn-Doped CoFe2O4 Nanowires and Their Application as Humidity Sensors and Photodetectors. *Journal of Physical Chemistry C*, **2009**, 113, 7085-7090	3.8	88
24	Transformation of ZnTe nanowires to CdTe nanowires through the formation of ZnCdTe□CdTe core□shell structure by vapor transport. *Journal of Materials Chemistry*, **2008**, 18, 875		28
23	Three-Dimensional Structure of Helical and Zigzagged Nanowires Using Electron Tomography. *Materials Research Society Symposia Proceedings*, **2008**, 1144, 1		
22	Shape Evolution of ZnTe Nanocrystals: Nanoflowers, Nanodots, and Nanorods. *Chemistry of Materials*, **2007**, 19, 4670-4675	9.6	62
21	Morphology-Tuned Growth of □MnSe One-Dimensional Nanostructures. *Journal of Physical Chemistry C*, **2007**, 111, 519-525	3.8	17
20	Ferromagnetic Ge1-xMx (M = Mn, Co, and Fe) Nanowires. *Materials Research Society Symposia Proceedings*, **2007**, 1032, 1		0
19	Vertically Aligned Mn-doped Fe3O4 Nanowire Arrays: Magnetic Properties and Gas Sensing at Room Temperature. *Materials Research Society Symposia Proceedings*, **2007**, 1032, 1		4
18	Chemical Conversion Reaction between CdS Nanobelts and ZnS Nanobelts by Vapor Transport. *Chemistry of Materials*, **2007**, 19, 4663-4669	9.6	41
17	MnGa2O4 and Zn-doped MnGa2O4 1-Dimensional Nanostructures. *Journal of Physical Chemistry C*, **2007**, 111, 12207-12212	3.8	9
16	Synthesis of Silicon Nanowires and their Heterostructures by Thermal Chemical Vapor Deposition. *Materials Research Society Symposia Proceedings*, **2005**, 879, 1		
15	Short-Period Superlattice Structure of Sn-doped In2O3(ZnO)4 and In2O3(ZnO)5 Nanowires. *Materials Research Society Symposia Proceedings*, **2005**, 879, 1		
14	Ferromagnetic Mn-Doped GaN Nanowires for Nanospintronics. *Materials Research Society Symposia Proceedings*, **2005**, 877, 1		
13	Hydrogen Bonding Ability of Azabenzenes toward Thioacetamide, Acetamide, and Water. *Journal of Physical Chemistry A*, **2004**, 108, 921-927	2.8	21
12	Vertically Aligned Sulfur-Doped ZnO Nanowires Synthesized via Chemical Vapor Deposition. *Journal of Physical Chemistry B*, **2004**, 108, 5206-5210	3.4	180
11	Semiconductor nanowires surrounded by cylindrical Al2O3 shells. *Journal of Electronic Materials*, **2003**, 32, 1344-1348	1.9	11

10	Direct Synthesis of Gallium Nitride Nanowires Coated with Boron Carbonitride Layers. *Journal of Physical Chemistry B*, **2003**, 107, 6739-6742	3.4	13
9	Direct synthesis of aligned silicon carbide nanowires from the silicon substrates. *Chemical Communications*, **2003**, 256-7	5.8	2
8	GaP Nanostructures: Nanowires, Nanobelts, Nanocables, and Nanocapsules. *Materials Research Society Symposia Proceedings*, **2003**, 789, 97		
7	The Catalytic Effect on Vertically Aligned Carbon Nanotubes. *Materials Research Society Symposia Proceedings*, **2003**, 800, 121		2
6	Controlled Structure of Gallium Oxide and Indium Oxide Nanowires. *Materials Research Society Symposia Proceedings*, **2003**, 789, 103		2
5	Control of Morphology and Growth Direction of Gallium Nitride Nanostructures. *Materials Research Society Symposia Proceedings*, **2003**, 789, 109		
4	Synthesis of gallium phosphide nanowires via sublimation method. *Chemical Communications*, **2002**, 2564-2565	3.8	28
3	Growth Model for Bamboolike Structured Carbon Nanotubes Synthesized Using Thermal Chemical Vapor Deposition. *Journal of Physical Chemistry B*, **2001**, 105, 2365-2368	3.4	58
2	Growth model of bamboo-shaped carbon nanotubes by thermal chemical vapor deposition. *Applied Physics Letters*, **2000**, 77, 3397-3399	3.4	227
1	Energy Relaxation Dynamics of Photoexcited C60 Solid. *The Journal of Physical Chemistry*, **1996**, 100, 9223-9226		18