Jeunghee Park

List of Publications by Year
in descending order

106 papers	4,958 citations	94433 37 h-index	95266 68 g-index
106 all docs	106 docs citations	106 times ranked	8827 citing authors

#	Article	IF	Citations
1	Polytypic Phase Transition of Nb_{1â€“<i>x</i>}V_{<i>x</i>}Se₂ via Colloidal Synthesis and Their Catalytic Activity toward Hydrogen Evolution Reaction. ACS Nano, 2022, 16, 4278-4288.	14.6	18
2	Polymorphic Ga₂S₃ nanowires: phase-controlled growth and crystal structure calculations. Nanoscale Advances, 2022, 4, 3218-3225.	4.6	1
3	Chalcogen-vacancy group VI transition metal dichalcogenide nanosheets for electrochemical and photoelectrochemical hydrogen evolution. Journal of Materials Chemistry C, 2021, 9, 101-109.	5.5	20
4	Anisotropic 2D SiAs for Highâ€Performance UVâ€“Visible Photodetectors. Small, 2021, 17, e2006310.	10.0	35
5	Concurrent Vacancy and Adatom Defects of Mo_{1â€“<i>x</i>}Nb_{<i>x</i>}Se₂ Alloy Nanosheets Enhance Electrochemical Performance of Hydrogen Evolution Reaction. ACS Nano, 2021, 15, 5467-5477.	14.6	51
6	Phase-Transition Mo_{1â€“<i>x</i>}V_{<i>x</i>}Se₂ Alloy Nanosheets with Rich Vâ€“Se Vacancies and Their Enhanced Catalytic Performance of Hydrogen Evolution Reaction. ACS Nano, 2021, 15, 14672-14682.	14.6	31
7	Anisotropic alloying of Re_{1âˆ’x}Mo_xS₂ nanosheets to boost the electrochemical hydrogen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 25131-25141.	10.3	21
8	Adatom Doping of Transition Metals in ReSe₂ Nanosheets for Enhanced Electrocatalytic Hydrogen Evolution Reaction. ACS Nano, 2020, 14, 12184-12194.	14.6	67
9	Phase Evolution of Re_{1â€“<i>x</i>}Mo<i>_x</i>Se₂ Alloy Nanosheets and Their Enhanced Catalytic Activity toward Hydrogen Evolution Reaction. ACS Nano, 2020, 14, 11995-12005.	14.6	59
10	Phase Controlled Growth of Cd₃As₂ Nanowires and Their Negative Photoconductivity. Nano Letters, 2020, 20, 4939-4946.	9.1	20
11	Ruthenium Nanoparticles on Cobaltâ€Doped 1Tâ€² Phase MoS₂ Nanosheets for Overall Water Splitting. Small, 2020, 16, e2000081.	10.0	82
12	Nickel sulfide nanocrystals for electrochemical and photoelectrochemical hydrogen generation. Journal of Materials Chemistry C, 2020, 8, 3240-3247.	5.5	17
13	Controllable pâ€“n junctions in three-dimensional Dirac semimetal Cd3As2 nanowires. Nanotechnology, 2020, 31, 205001.	2.6	4
14	Se-Rich MoSe₂ Nanosheets and Their Superior Electrocatalytic Performance for Hydrogen Evolution Reaction. ACS Nano, 2020, 14, 6295-6304.	14.6	125
15	Two-dimensional MoS₂/Fe-phthalocyanine hybrid nanostructures as excellent electrocatalysts for hydrogen evolution and oxygen reduction reactions. Nanoscale, 2019, 11, 14266-14275.	5.6	32
16	Two-dimensional MoS₂â€“melamine hybrid nanostructures for enhanced catalytic hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 22571-22578.	10.3	14
17	GaAsSe Ternary Alloy Nanowires for Enhanced Photoconductivity. Journal of Physical Chemistry C, 2019, 123, 3908-3915.	3.1	3
18	Nickel phosphide polymorphs with an active (001) surface as excellent catalysts for water splitting. CrystEngComm, 2019, 21, 1143-1149.	2.6	19

#	Article	IF	Citations
19	Two dimensional MoS2 meets porphyrins via intercalation to enhance the electrocatalytic activity toward hydrogen evolution. Nanoscale, 2019, 11, 3780-3785.	5.6	21
20	Intercalated complexes of 1Tâ€²-MoS₂ nanosheets with alkylated phenylenediamines as excellent catalysts for electrochemical hydrogen evolution. Journal of Materials Chemistry A, 2019, 7, 2334-2343.	10.3	41
21	Thickness-dependent bandgap and electrical properties of GeP nanosheets. Journal of Materials Chemistry A, 2019, 7, 16526-16532.	10.3	45
22	Intercalation of cobaltocene into WS₂ nanosheets for enhanced catalytic hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 8101-8106.	10.3	26
23	Synthesis of Polytypic Gallium Phosphide and Gallium Arsenide Nanowires and Their Application as Photodetectors. ACS Omega, 2019, 4, 3098-3104.	3.5	12
24	Selective electrochemical reduction of carbon dioxide to formic acid using indiumâ€“zinc bimetallic nanocrystals. Journal of Materials Chemistry A, 2019, 7, 22879-22883.	10.3	39
25	Stable methylammonium-intercalated 1Tâ€²-MoS₂ for efficient electrocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 5613-5617.	10.3	38
26	Quantum Dots Formed in Three-dimensional Dirac Semimetal Cd₃As₂ Nanowires. Nano Letters, 2018, 18, 1863-1868.	9.1	16
27	Two-dimensional GeAs with a visible range band gap. Journal of Materials Chemistry A, 2018, 6, 9089-9098.	10.3	55
28	Strain Mapping and Raman Spectroscopy of Bent GaP and GaAs Nanowires. ACS Omega, 2018, 3, 3129-3135.	3.5	20
29	Arsenic for high-capacity lithium- and sodium-ion batteries. Nanoscale, 2018, 10, 7047-7057.	5.6	37
30	Two-Dimensional WS₂@Nitrogen-Doped Graphite for High-Performance Lithium Ion Batteries: Experiments and Molecular Dynamics Simulations. ACS Applied Materials & Interfaces, 2018, 10, 37928-37936.	8.0	28
31	Orthorhombic NiSe₂ Nanocrystals on Si Nanowires for Efficient Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 33198-33204.	8.0	49
32	Intercalation of aromatic amine for the 2Hâ€“1Tâ€² phase transition of MoS₂ by experiments and calculations. Nanoscale, 2018, 10, 11349-11356.	5.6	54
33	Nitrogen-rich 1Tâ€²-MoS₂ layered nanostructures using alkyl amines for high catalytic performance toward hydrogen evolution. Nanoscale, 2018, 10, 14726-14735.	5.6	39
34	Bent Polytypic ZnSe and CdSe Nanowires Probed by Photoluminescence. Small, 2017, 13, 1603695.	10.0	15
35	Surface-Modified Ta₃N₅ Nanocrystals with Boron for Enhanced Visible-Light-Driven Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 36715-36722.	8.0	20
36	IrO₂â€“ZnO Hybrid Nanoparticles as Highly Efficient Trifunctional Electrocatalysts. Journal of Physical Chemistry C, 2017, 121, 14899-14906.	3.1	35

#	Article	IF	Citations
37	Lightâ€"Matter Interactions in Cesium Lead Halide Perovskite Nanowire Lasers. Journal of Physical Chemistry Letters, 2016, 7, 3703-3710.	4.6	202
38	Doping Mechanism in Transparent, Conducting Tantalum Doped ZnO Films Deposited Using Atomic Layer Deposition. Advanced Materials Interfaces, 2016, 3, 1600496.	3.7	15
39	Photoluminescence and Photocurrents of GaS_{1â€"<i>x</i>}Se_{<i>x</i>} Nanobelts. Chemistry of Materials, 2016, 28, 5811-5820.	6.7	28
40	Ultrasound synthesis of lead halide perovskite nanocrystals. Journal of Materials Chemistry C, 2016, 4, 10625-10629.	5.5	124
41	Zn₂GeO₄ and Zn₂SnO₄ nanowires for high-capacity lithium- and sodium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 10691-10699.	10.3	77
42	FeP and FeP₂nanowires for efficient electrocatalytic hydrogen evolution reaction. Chemical Communications, 2016, 52, 2819-2822.	4.1	245
43	CoSe₂ and NiSe₂ Nanocrystals as Superior Bifunctional Catalysts for Electrochemical and Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2016, 8, 5327-5334.	8.0	425
44	Transition-Metal Doping of Oxide Nanocrystals for Enhanced Catalytic Oxygen Evolution. Journal of Physical Chemistry C, 2015, 119, 1921-1927.	3.1	96
45	Zn₃P₂â€"Zn₃As₂ Solid Solution Nanowires. Nano Letters, 2015, 15, 990-997.	9.1	24
46	Surface Engineered CuO Nanowires with ZnO Islands for CO₂ Photoreduction. ACS Applied Materials & Interfaces, 2015, 7, 5685-5692.	8.0	100
47	Reversible Halide Exchange Reaction of Organometal Trihalide Perovskite Colloidal Nanocrystals for Full-Range Band Gap Tuning. Nano Letters, 2015, 15, 5191-5199.	9.1	432
48	<i>In Situ</i> Temperature-Dependent Transmission Electron Microscopy Studies of Pseudobinary <i>m</i>GeTeÂ·Bi₂Te₃ (<i>m</i> = 3â€"8) Nanowires and First-Principles Calculations. Nano Letters, 2015, 15, 3923-3930.	9.1	12
49	Red-to-Ultraviolet Emission Tuning of Two-Dimensional Gallium Sulfide/Selenide. ACS Nano, 2015, 9, 9585-9593.	14.6	163
50	Composition-tuned Sn_xGe_{1â^'x}S nanocrystals for enhanced-performance lithium ion batteries. RSC Advances, 2014, 4, 60058-60063.	3.6	2
51	Ternary alloy nanocrystals of tin and germanium chalcogenides. RSC Advances, 2014, 4, 15695-15701.	3.6	21
52	Band Gap Tuning of Twinned GaAsP Ternary Nanowires. Journal of Physical Chemistry C, 2014, 118, 4546-4552.	3.1	21
53	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.	3.1	77
54	The Optoelectronic Properties of PbS Nanowire Field-Effect Transistors. IEEE Nanotechnology Magazine, 2013, 12, 1135-1138.	2.0	2

#	Article	IF	Citations
55	Facile phase and composition tuned synthesis of tin chalcogenide nanocrystals. RSC Advances, 2013, 3, 10349.	3.6	44
56	Polytypic ZnCdSe shell layer on a ZnO nanowire array for enhanced solar cell efficiency. Journal of Materials Chemistry, 2012, 22, 2157-2165.	6.7	27
57	Nb2O5 nanowire photoanode sensitized by a composition-tuned CdSxSe1âˆ’x shell. Journal of Materials Chemistry, 2012, 22, 8413.	6.7	22
58	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.	3.1	45
59	Solvent controlled synthesis of new hematite superstructures with large coercive values. CrystEngComm, 2012, 14, 2024.	2.6	23
60	CdSSe layer-sensitized TiO2 nanowire arrays as efficient photoelectrodes. Journal of Materials Chemistry, 2011, 21, 4553.	6.7	65
61	Composition and Phase Tuned InGaAs Alloy Nanowires. Journal of Physical Chemistry C, 2011, 115, 7843-7850.	3.1	55
62	Selective Nitrogen-Doping Structure of Nanosize Graphitic Layers. Journal of Physical Chemistry C, 2011, 115, 3737-3744.	3.1	52
63	Nitrogen-Doped Graphitic Layers Deposited on Silicon Nanowires for Efficient Lithium-Ion Battery Anodes. Journal of Physical Chemistry C, 2011, 115, 9451-9457.	3.1	131
64	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.	3.1	13
65	Gas-phase substitution synthesis of Cu1.8S and Cu2S superlattice nanowires from CdS nanowires. CrystEngComm, 2011, 13, 2091.	2.6	11
66	Synthesis of Auâˆ’Cu₂S Coreâˆ’Shell Nanocrystals and Their Photocatalytic and Electrocatalytic Activity. Journal of Physical Chemistry C, 2010, 114, 22141-22146.	3.1	94
67	Three Synthesis Routes of Single-crystalline PbS Nanowires and Their Electrical Transport Properties. Materials Research Society Symposia Proceedings, 2010, 1258, 1.	0.1	0
68	ZnO-CdZnS Core-Shell Nanocable Arrays for Highly Efficient Photoelectrochemical Hydrogen Generation. Materials Research Society Symposia Proceedings, 2010, 1256, 1.	0.1	0
69	Terahertz Emission from Vertically-aligned Silicon Nanowires. Materials Research Society Symposia Proceedings, 2010, 1258, 1.	0.1	0
70	Thermoelectric properties of individual single-crystalline PbTe nanowires. , 2010, , .		0
71	Silicon nanowire-schottky solar cell by liquid processes. , 2010, , .		0
72	Synthesized of ZnO/CdZnS/CdS core-shell nano cable arrays using by chemical vapor transport method for highly efficient photoelectrochemical hydrogen generation. , 2010, , .		0

#	Article	IF	Citations
73	Vertical epitaxial Co<inf>5</inf>Ge<inf>7</inf> nanowires and nanobelts arrays on a thin graphitic layer for flexible FED. , 2010, , .		0
74	Three-dimensional Structure of Twinned and Zigzagged One-dimensional Nanostructures Using Electron Tomography. Materials Research Society Symposia Proceedings, 2010, 1262, 1.	0.1	0
75	Size-dependent thermal conductivity of individual single-crystalline PbTe nanowires. Applied Physics Letters, 2010, 96, 103101.	3.3	60
76	Terahertz spectroscopy of platinum, copper sulfide, and tin oxide nanocrystals-carbon nanotube hybrid nanostructures. , 2009, , .		1
77	Multiple silicon nanowires-embedded Schottky solar cell. Applied Physics Letters, 2009, 95, 143112.	3.3	28
78	Comparative Photocatalytic Ability of Nanocrystal-Carbon Nanotube and -TiO₂ Nanocrystal Hybrid Nanostructures. Journal of Physical Chemistry C, 2009, 113, 19966-19972.	3.1	59
79	Array of Si nanowire/multiwalled carbon nanotube core/shell nanocomposites for photovoltaic applications. , 2009, , .		0
80	Morphology-Tuned Synthesis of Single-Crystalline V5Si3 Nanotubes and Nanowires. Journal of Physical Chemistry C, 2009, 113, 12996-13001.	3.1	17
81	Electronic Structure of Si-Doped BN Nanotubes Using X-ray Photoelectron Spectroscopy and First-Principles Calculation. Chemistry of Materials, 2009, 21, 136-143.	6.7	56
82	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.	3.1	102
83	Transformation of ZnTe nanowires to CdTe nanowires through the formation of ZnCdTeâ€“CdTe coreâ€“shell structure by vapor transport. Journal of Materials Chemistry, 2008, 18, 875.	6.7	30
84	Three-Dimensional Structure of Helical and Zigzagged Nanowires Using Electron Tomography. Materials Research Society Symposia Proceedings, 2008, 1144, 1.	0.1	1
85	Ferromagnetic Ge1-xMx (M = Mn, Co, and Fe) Nanowires. Materials Research Society Symposia Proceedings, 2007, 1032, 1.	0.1	1
86	Vertically Aligned Mn-doped Fe3O4 Nanowire Arrays: Magnetic Properties and Gas Sensing at Room Temperature. Materials Research Society Symposia Proceedings, 2007, 1032, 1.	0.1	4
87	Chemical Conversion Reaction between CdS Nanobelts and ZnS Nanobelts by Vapor Transport. Chemistry of Materials, 2007, 19, 4663-4669.	6.7	43
88	MnGa₂O₄ and Zn-doped MnGa₂O₄ 1-Dimensional Nanostructures. Journal of Physical Chemistry C, 2007, 111, 12207-12212.	3.1	9
89	Shape Evolution of ZnTe Nanocrystals:â€‰ Nanoflowers, Nanodots, and Nanorods. Chemistry of Materials, 2007, 19, 4670-4675.	6.7	70
90	Morphology-Tuned Growth of Î±-MnSe One-Dimensional Nanostructures. Journal of Physical Chemistry C, 2007, 111, 519-525.	3.1	18

#	Article	IF	Citations
91	Synthesis of Silicon Nanowires and their Heterostructures by Thermal Chemical Vapor Deposition. Materials Research Society Symposia Proceedings, 2005, 879, 1.	0.1	0
92	Short-Period Superlattice Structure of Sn-doped In2O3(ZnO)4 and In2O3(ZnO)5 Nanowires. Materials Research Society Symposia Proceedings, 2005, 879, 1.	0.1	0
93	Ferromagnetic Mn-Doped GaN Nanowires for Nanospintronics. Materials Research Society Symposia Proceedings, 2005, 877, 1.	0.1	0
94	Hydrogen Bonding Ability of Azabenzenes toward Thioacetamide, Acetamide, and Water. Journal of Physical Chemistry A, 2004, 108, 921-927.	2.5	21
95	Vertically Aligned Sulfur-Doped ZnO Nanowires Synthesized via Chemical Vapor Deposition. Journal of Physical Chemistry B, 2004, 108, 5206-5210.	2.6	192
96	Semiconductor nanowires surrounded by cylindrical Al2O3 shells. Journal of Electronic Materials, 2003, 32, 1344-1348.	2.2	14
97	Direct Synthesis of Gallium Nitride Nanowires Coated with Boron Carbonitride Layers. Journal of Physical Chemistry B, 2003, 107, 6739-6742.	2.6	14
98	Direct synthesis of aligned silicon carbide nanowires from the silicon substrates. Chemical Communications, 2003, , 256-257.	4.1	2
99	GaP Nanostructures: Nanowires, Nanobelts, Nanocables, and Nanocapsules. Materials Research Society Symposia Proceedings, 2003, 789, 97.	0.1	0
100	The Catalytic Effect on Vertically Aligned Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2003, 800, 121.	0.1	2
101	Controlled Structure of Gallium Oxide and Indium Oxide Nanowires. Materials Research Society Symposia Proceedings, 2003, 789, 103.	0.1	2
102	Control of Morphology and Growth Direction of Gallium Nitride Nanostructures. Materials Research Society Symposia Proceedings, 2003, 789, 109.	0.1	0
103	Synthesis of gallium phosphide nanowires via sublimation method. Chemical Communications, 2002, , 2564-2565.	4.1	30
104	Growth Model for Bamboolike Structured Carbon Nanotubes Synthesized Using Thermal Chemical Vapor Deposition. Journal of Physical Chemistry B, 2001, 105, 2365-2368.	2.6	63
105	Growth model of bamboo-shaped carbon nanotubes by thermal chemical vapor deposition. Applied Physics Letters, 2000, 77, 3397-3399.	3.3	244
106	Energy Relaxation Dynamics of Photoexcited C60 Solid. The Journal of Physical Chemistry, 1996, 100, 9223-9226.	2.9	18