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	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
2	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
3	FeP and FeP₂nanowires for efficient electrocatalytic hydrogen evolution reaction. Chemical Communications, 2016, 52, 2819-2822.	4.1	245
4	Growth model of bamboo-shaped carbon nanotubes by thermal chemical vapor deposition. Applied Physics Letters, 2000, 77, 3397-3399.	3.3	244
5	Lightâ€“Matter Interactions in Cesium Lead Halide Perovskite Nanowire Lasers. Journal of Physical Chemistry Letters, 2016, 7, 3703-3710.	4.6	202
6	Vertically Aligned Sulfur-Doped ZnO Nanowires Synthesized via Chemical Vapor Deposition. Journal of Physical Chemistry B, 2004, 108, 5206-5210.	2.6	192
7	Red-to-Ultraviolet Emission Tuning of Two-Dimensional Gallium Sulfide/Selenide. ACS Nano, 2015, 9, 9585-9593.	14.6	163
8	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
9	Se-Rich MoSe₂ Nanosheets and Their Superior Electrocatalytic Performance for Hydrogen Evolution Reaction. ACS Nano, 2020, 14, 6295-6304.	14.6	125
10	Ultrasound synthesis of lead halide perovskite nanocrystals. Journal of Materials Chemistry C, 2016, 4, 10625-10629.	5.5	124
11	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
12	Surface Engineered CuO Nanowires with ZnO Islands for CO₂ Photoreduction. ACS Applied Materials & Interfaces, 2015, 7, 5685-5692.	8.0	100
13	Transition-Metal Doping of Oxide Nanocrystals for Enhanced Catalytic Oxygen Evolution. Journal of Physical Chemistry C, 2015, 119, 1921-1927.	3.1	96
14	Synthesis of Auâ^'Cu₂S Coreâ^'Shell Nanocrystals and Their Photocatalytic and Electrocatalytic Activity. Journal of Physical Chemistry C, 2010, 114, 22141-22146.	3.1	94
15	Ruthenium Nanoparticles on Cobaltâ€Doped 1Tâ€² Phase MoS₂ Nanosheets for Overall Water Splitting. Small, 2020, 16, e2000081.	10.0	82
16	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
17	Zn₂GeO₄ and Zn₂SnO₄ nanowires for high-capacity lithium- and sodium-ion batteries. Journal of Materials Chemistry A, 2016, 4, 10691-10699.	10.3	77
18	Shape Evolution of ZnTe Nanocrystals:â€‰ Nanoflowers, Nanodots, and Nanorods. Chemistry of Materials, 2007, 19, 4670-4675.	6.7	70

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19	Adatom Doping of Transition Metals in ReSe₂ Nanosheets for Enhanced Electrocatalytic Hydrogen Evolution Reaction. ACS Nano, 2020, 14, 12184-12194.	14.6	67
20	CdSSe layer-sensitized TiO2 nanowire arrays as efficient photoelectrodes. Journal of Materials Chemistry, 2011, 21, 4553.	6.7	65
21	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
22	Size-dependent thermal conductivity of individual single-crystalline PbTe nanowires. Applied Physics Letters, 2010, 96, 103101.	3.3	60
23	Comparative Photocatalytic Ability of Nanocrystal-Carbon Nanotube and -TiO₂ Nanocrystal Hybrid Nanostructures. Journal of Physical Chemistry C, 2009, 113, 19966-19972.	3.1	59
24	Phase Evolution of Re_{1â€“x}Mo_xSe₂ Alloy Nanosheets and Their Enhanced Catalytic Activity toward Hydrogen Evolution Reaction. ACS Nano, 2020, 14, 11995-12005.	14.6	59
25	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
26	Composition and Phase Tuned InGaAs Alloy Nanowires. Journal of Physical Chemistry C, 2011, 115, 7843-7850.	3.1	55
27	Two-dimensional GeAs with a visible range band gap. Journal of Materials Chemistry A, 2018, 6, 9089-9098.	10.3	55
28	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
29	Selective Nitrogen-Doping Structure of Nanosize Graphitic Layers. Journal of Physical Chemistry C, 2011, 115, 3737-3744.	3.1	52
30	Concurrent Vacancy and Adatom Defects of Mo_{1â€“x}Nb_xSe₂ Alloy Nanosheets Enhance Electrochemical Performance of Hydrogen Evolution Reaction. ACS Nano, 2021, 15, 5467-5477.	14.6	51
31	Orthorhombic NiSe₂ Nanocrystals on Si Nanowires for Efficient Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 33198-33204.	8.0	49
32	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
33	Thickness-dependent bandgap and electrical properties of GeP nanosheets. Journal of Materials Chemistry A, 2019, 7, 16526-16532.	10.3	45
34	Facile phase and composition tuned synthesis of tin chalcogenide nanocrystals. RSC Advances, 2013, 3, 10349.	3.6	44
35	Chemical Conversion Reaction between CdS Nanobelts and ZnS Nanobelts by Vapor Transport. Chemistry of Materials, 2007, 19, 4663-4669.	6.7	43
36	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

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37	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
38	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
39	Stable methylammonium-intercalated 1Tâ€²-MoS₂ for efficient electrocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2018, 6, 5613-5617.	10.3	38
40	Arsenic for high-capacity lithium- and sodium-ion batteries. Nanoscale, 2018, 10, 7047-7057.	5.6	37
41	IrO₂â€“ZnO Hybrid Nanoparticles as Highly Efficient Trifunctional Electrocatalysts. Journal of Physical Chemistry C, 2017, 121, 14899-14906.	3.1	35
42	Anisotropic 2D SiAs for Highâ€Performance UVâ€“Visible Photodetectors. Small, 2021, 17, e2006310.	10.0	35
43	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
44	Phase-Transition Mo_{1â€“x}V_xSe₂ 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
45	Synthesis of gallium phosphide nanowires via sublimation method. Chemical Communications, 2002, , 2564-2565.	4.1	30
46	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
47	Multiple silicon nanowires-embedded Schottky solar cell. Applied Physics Letters, 2009, 95, 143112.	3.3	28
48	Photoluminescence and Photocurrents of GaS_{1â€“x}Se_x Nanobelts. Chemistry of Materials, 2016, 28, 5811-5820.	6.7	28
49	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
50	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
51	Intercalation of cobaltocene into WS₂ nanosheets for enhanced catalytic hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 8101-8106.	10.3	26
52	Zn₃P₂â€“Zn₃As₂ Solid Solution Nanowires. Nano Letters, 2015, 15, 990-997.	9.1	24
53	Solvent controlled synthesis of new hematite superstructures with large coercive values. CrystEngComm, 2012, 14, 2024.	2.6	23
54	Nb2O5 nanowire photoanode sensitized by a composition-tuned CdSxSe1â^'x shell. Journal of Materials Chemistry, 2012, 22, 8413.	6.7	22

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55	Hydrogen Bonding Ability of Azabenzenes toward Thioacetamide, Acetamide, and Water. Journal of Physical Chemistry A, 2004, 108, 921-927.	2.5	21
56	Ternary alloy nanocrystals of tin and germanium chalcogenides. RSC Advances, 2014, 4, 15695-15701.	3.6	21
57	Band Gap Tuning of Twinned GaAsP Ternary Nanowires. Journal of Physical Chemistry C, 2014, 118, 4546-4552.	3.1	21
58	Two dimensional MoS2 meets porphyrins via intercalation to enhance the electrocatalytic activity toward hydrogen evolution. Nanoscale, 2019, 11, 3780-3785.	5.6	21
59	Anisotropic alloying of Re_{1â^'x}Mo_xS₂ nanosheets to boost the electrochemical hydrogen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 25131-25141.	10.3	21
60	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
61	Strain Mapping and Raman Spectroscopy of Bent GaP and GaAs Nanowires. ACS Omega, 2018, 3, 3129-3135.	3.5	20
62	Phase Controlled Growth of Cd₃As₂ Nanowires and Their Negative Photoconductivity. Nano Letters, 2020, 20, 4939-4946.	9.1	20
63	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
64	Nickel phosphide polymorphs with an active (001) surface as excellent catalysts for water splitting. CrystEngComm, 2019, 21, 1143-1149.	2.6	19
65	Energy Relaxation Dynamics of Photoexcited C60 Solid. The Journal of Physical Chemistry, 1996, 100, 9223-9226.	2.9	18
66	Morphology-Tuned Growth of Î±-MnSe One-Dimensional Nanostructures. Journal of Physical Chemistry C, 2007, 111, 519-525.	3.1	18
67	Polytypic Phase Transition of Nb_{1â€“x}V_xSe₂ via Colloidal Synthesis and Their Catalytic Activity toward Hydrogen Evolution Reaction. ACS Nano, 2022, 16, 4278-4288.	14.6	18
68	Morphology-Tuned Synthesis of Single-Crystalline V5Si3 Nanotubes and Nanowires. Journal of Physical Chemistry C, 2009, 113, 12996-13001.	3.1	17
69	Nickel sulfide nanocrystals for electrochemical and photoelectrochemical hydrogen generation. Journal of Materials Chemistry C, 2020, 8, 3240-3247.	5.5	17
70	Quantum Dots Formed in Three-dimensional Dirac Semimetal Cd₃As₂ Nanowires. Nano Letters, 2018, 18, 1863-1868.	9.1	16
71	Doping Mechanism in Transparent, Conducting Tantalum Doped ZnO Films Deposited Using Atomic Layer Deposition. Advanced Materials Interfaces, 2016, 3, 1600496.	3.7	15
72	Bent Polytypic ZnSe and CdSe Nanowires Probed by Photoluminescence. Small, 2017, 13, 1603695.	10.0	15

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73	Semiconductor nanowires surrounded by cylindrical Al2O3 shells. Journal of Electronic Materials, 2003, 32, 1344-1348.	2.2	14
74	Direct Synthesis of Gallium Nitride Nanowires Coated with Boron Carbonitride Layers. Journal of Physical Chemistry B, 2003, 107, 6739-6742.	2.6	14
75	Two-dimensional MoS₂â€“melamine hybrid nanostructures for enhanced catalytic hydrogen evolution reaction. Journal of Materials Chemistry A, 2019, 7, 22571-22578.	10.3	14
76	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
77	In Situ Temperature-Dependent Transmission Electron Microscopy Studies of Pseudobinary mGeTeÂ·Bi₂Te₃ (m = 3â€“8) Nanowires and First-Principles Calculations. Nano Letters, 2015, 15, 3923-3930.	9.1	12
78	Synthesis of Polytypic Gallium Phosphide and Gallium Arsenide Nanowires and Their Application as Photodetectors. ACS Omega, 2019, 4, 3098-3104.	3.5	12
79	Gas-phase substitution synthesis of Cu1.8S and Cu2S superlattice nanowires from CdS nanowires. CrystEngComm, 2011, 13, 2091.	2.6	11
80	MnGa₂O₄ and Zn-doped MnGa₂O₄ 1-Dimensional Nanostructures. Journal of Physical Chemistry C, 2007, 111, 12207-12212.	3.1	9
81	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
82	Controllable pâ€“n junctions in three-dimensional Dirac semimetal Cd3As2 nanowires. Nanotechnology, 2020, 31, 205001.	2.6	4
83	GaAsSe Ternary Alloy Nanowires for Enhanced Photoconductivity. Journal of Physical Chemistry C, 2019, 123, 3908-3915.	3.1	3
84	Direct synthesis of aligned silicon carbide nanowires from the silicon substrates. Chemical Communications, 2003, , 256-257.	4.1	2
85	The Catalytic Effect on Vertically Aligned Carbon Nanotubes. Materials Research Society Symposia Proceedings, 2003, 800, 121.	0.1	2
86	Controlled Structure of Gallium Oxide and Indium Oxide Nanowires. Materials Research Society Symposia Proceedings, 2003, 789, 103.	0.1	2
87	The Optoelectronic Properties of PbS Nanowire Field-Effect Transistors. IEEE Nanotechnology Magazine, 2013, 12, 1135-1138.	2.0	2
88	Composition-tuned Sn_xGe_{1â^'x}S nanocrystals for enhanced-performance lithium ion batteries. RSC Advances, 2014, 4, 60058-60063.	3.6	2
89	Ferromagnetic Ge1-xMx (M = Mn, Co, and Fe) Nanowires. Materials Research Society Symposia Proceedings, 2007, 1032, 1.	0.1	1
90	Three-Dimensional Structure of Helical and Zigzagged Nanowires Using Electron Tomography. Materials Research Society Symposia Proceedings, 2008, 1144, 1.	0.1	1

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91	Terahertz spectroscopy of platinum, copper sulfide, and tin oxide nanocrystals-carbon nanotube hybrid nanostructures. , 2009, , .		1
92	Polymorphic Ga₂S₃ nanowires: phase-controlled growth and crystal structure calculations. Nanoscale Advances, 2022, 4, 3218-3225.	4.6	1
93	GaP Nanostructures: Nanowires, Nanobelts, Nanocables, and Nanocapsules. Materials Research Society Symposia Proceedings, 2003, 789, 97.	0.1	0
94	Control of Morphology and Growth Direction of Gallium Nitride Nanostructures. Materials Research Society Symposia Proceedings, 2003, 789, 109.	0.1	0
95	Synthesis of Silicon Nanowires and their Heterostructures by Thermal Chemical Vapor Deposition. Materials Research Society Symposia Proceedings, 2005, 879, 1.	0.1	0
96	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
97	Ferromagnetic Mn-Doped GaN Nanowires for Nanospintronics. Materials Research Society Symposia Proceedings, 2005, 877, 1.	0.1	0
98	Array of Si nanowire/multiwalled carbon nanotube core/shell nanocomposites for photovoltaic applications. , 2009, , .		0
99	Three Synthesis Routes of Single-crystalline PbS Nanowires and Their Electrical Transport Properties. Materials Research Society Symposia Proceedings, 2010, 1258, 1.	0.1	0
100	ZnO-CdZnS Core-Shell Nanocable Arrays for Highly Efficient Photoelectrochemical Hydrogen Generation. Materials Research Society Symposia Proceedings, 2010, 1256, 1.	0.1	0
101	Terahertz Emission from Vertically-aligned Silicon Nanowires. Materials Research Society Symposia Proceedings, 2010, 1258, 1.	0.1	0
102	Thermoelectric properties of individual single-crystalline PbTe nanowires. , 2010, , .		0
103	Silicon nanowire-schottky solar cell by liquid processes. , 2010, , .		0
104	Synthesized of ZnO/CdZnS/CdS core-shell nano cable arrays using by chemical vapor transport method for highly efficient photoelectrochemical hydrogen generation. , 2010, , .		0
105	Vertical epitaxial Co<inf>5</inf>Ge<inf>7</inf> nanowires and nanobelts arrays on a thin graphitic layer for flexible FED. , 2010, , .		0
106	Three-dimensional Structure of Twinned and Zigzagged One-dimensional Nanostructures Using Electron Tomography. Materials Research Society Symposia Proceedings, 2010, 1262, 1.	0.1	0