

Jun Min Suh

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,841
citations

159585

30
h-index

189892

50
g-index

53
all docs

53
docs citations

53
times ranked

3633
citing authors

#	ARTICLE	IF	CITATIONS
1	High Hole Mobility Inorganic Halide Perovskite Field-Effect Transistors with Enhanced Phase Stability and Interfacial Defect Tolerance. <i>Advanced Electronic Materials</i> , 2022, 8, 2100624.	5.1	6
2	Artificial Adaptive and Maladaptive Sensory Receptors Based on a Surface-Dominated Diffusive Memristor. <i>Advanced Science</i> , 2022, 9, e2103484.	11.2	26
3	Visible Light Driven Ultrasensitive and Selective NO ₂ Detection in Tin Oxide Nanoparticles with Sulfur Doping Assisted by Cysteine. <i>Small</i> , 2022, 18, e2106613.	10.0	14
4	Architecture engineering of nanostructured catalyst via layer-by-layer adornment of multiple nanocatalysts on silica nanorod arrays for hydrogenation of nitroarenes. <i>Scientific Reports</i> , 2022, 12, 2.	3.3	10
5	Reconfigurable heterogeneous integration using stackable chips with embedded artificial intelligence. <i>Nature Electronics</i> , 2022, 5, 386-393.	26.0	57
6	Extremely Sensitive and Selective NO ₂ Detection at Relative Humidity 90% in 2-Dimensional Tin Sulfides/SnO ₂ Nanorod Heterostructure. <i>Sensors and Actuators B: Chemical</i> , 2022, 369, 132319.	7.8	7
7	Optically Activated 3D Thin-Shell TiO ₂ for Super-Sensitive Chemoresistive Responses: Toward Visible Light Activation. <i>Advanced Science</i> , 2021, 8, 2001883.	11.2	28
8	Colorimetric Sensors for Toxic and Hazardous Gas Detection: A Review. <i>Electronic Materials Letters</i> , 2021, 17, 1-17.	2.2	62
9	Light-activated gas sensing: a perspective of integration with micro-LEDs and plasmonic nanoparticles. <i>Materials Advances</i> , 2021, 2, 827-844.	5.4	46
10	Substantially improved room temperature NO ₂ sensing in 2-dimensional SnS ₂ nanoflowers enabled by visible light illumination. <i>Journal of Materials Chemistry A</i> , 2021, 9, 11168-11178.	10.3	75
11	Light-Activated Gas Sensors: Optically Activated 3D Thin-Shell TiO ₂ for Super-Sensitive Chemoresistive Responses: Toward Visible Light Activation (<i>Adv. Sci.</i> 3/2021). <i>Advanced Science</i> , 2021, 8, 2170012.	11.2	2
12	Edge-exposed WS ₂ on 1D nanostructures for highly selective NO ₂ sensor at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2021, 333, 129566.	7.8	30
13	Microscopic evidence of strong interactions between chemical vapor deposited 2D MoS ₂ film and SiO ₂ growth template. <i>Nano Convergence</i> , 2021, 8, 11.	12.1	20
14	Surface-tailored graphene channels. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	7.9	12
15	Long-term reliable physical health monitoring by sweat pore-inspired perforated electronic skins. <i>Science Advances</i> , 2021, 7, .	10.3	89
16	Strong Fermi-level pinning at metal contacts to halide perovskites. <i>Journal of Materials Chemistry C</i> , 2021, 9, 15212-15220.	5.5	12
17	Rationally Designed TiO ₂ Nanostructures of Continuous Pore Network for Fast-Responding and Highly Sensitive Acetone Sensor. <i>Small Methods</i> , 2021, 5, e2100941.	8.6	18
18	Recent Advances in Rechargeable Aluminum-Ion Batteries and Considerations for Their Future Progress. <i>ACS Applied Energy Materials</i> , 2020, 3, 6019-6035.	5.1	58

#	ARTICLE	IF	CITATIONS
19	Quasi-2D halide perovskites for resistive switching devices with ON/OFF ratios above 10 ⁹ . NPG Asia Materials, 2020, 12, .	7.9	71
20	Palladium Nanoparticles on Assorted Nanostructured Supports: Applications for Suzuki, Heck, and Sonogashira Cross-Coupling Reactions. ACS Applied Nano Materials, 2020, 3, 2070-2103.	5.0	196
21	Effects of Metal-Organic Framework Membrane on Hydrogen Selectivity. Journal of Sensor Science and Technology, 2020, 29, 374-381.	0.2	2
22	Substantially enhanced photoelectrochemical performance of TiO ₂ nanorods/CdS nanocrystals heterojunction photoanode decorated with MoS ₂ nanosheets. Applied Catalysis B: Environmental, 2019, 259, 118102.	20.2	99
23	Ionic-Activated Chemiresistive Gas Sensors for Room-Temperature Operation. Small, 2019, 15, e1902065.	10.0	34
24	Perspectives and challenges in multilayer ceramic capacitors for next generation electronics. Journal of Materials Chemistry C, 2019, 7, 9782-9802.	5.5	173
25	Two-Dimensional NbS ₂ Gas Sensors for Selective and Reversible NO ₂ Detection at Room Temperature. ACS Sensors, 2019, 4, 2395-2402.	7.8	101
26	Reduced graphene oxide-based materials for electrochemical energy conversion reactions. , 2019, 1, 85-108.		108
27	Sensors/Biosensors: Ionic-Activated Chemiresistive Gas Sensors for Room-Temperature Operation (Small 40/2019). Small, 2019, 15, 1970214.	10.0	0
28	2-Dimensional Materials: Electrocatalytic Water Splitting and CO ₂ Reduction: Sustainable Solutions via Single-Atom Catalysts Supported on 2D Materials (Small Methods 9/2019). Small Methods, 2019, 3, 1970028.	8.6	4
29	Morphological Evolution Induced through a Heterojunction of W-Decorated NiO Nanoigloos: Synergistic Effect on High-Performance Gas Sensors. ACS Applied Materials & Interfaces, 2019, 11, 7529-7538.	8.0	39
30	Pd- and Au-Decorated MoS ₂ Gas Sensors for Enhanced Selectivity. Electronic Materials Letters, 2019, 15, 368-376.	2.2	50
31	Daylight-Induced Metal-Insulator Transition in Ag-Decorated Vanadium Dioxide Nanorod Arrays. ACS Applied Materials & Interfaces, 2019, 11, 11568-11578.	8.0	20
32	Copper oxide-graphene oxide nanocomposite: efficient catalyst for hydrogenation of nitroaromatics in water. Nano Convergence, 2019, 6, 6.	12.1	94
33	Electrocatalytic Water Splitting and CO ₂ Reduction: Sustainable Solutions via Single-Atom Catalysts Supported on 2D Materials. Small Methods, 2019, 3, 1800492.	8.6	63
34	SnS ₂ Nanograins on Porous SiO ₂ Nanorods Template for Highly Sensitive NO ₂ Sensor at Room Temperature with Excellent Recovery. ACS Sensors, 2019, 4, 678-686.	7.8	64
35	Chemical Sensors Based on Two-Dimensional (2D) Materials for Selective Detection of Ions and Molecules in Liquid. Frontiers in Chemistry, 2019, 7, 708.	3.6	75
36	Heterojunction Based on Rh-Decorated WO ₃ Nanorods for Morphological Change and Gas Sensor Application Using the Transition Effect. Chemistry of Materials, 2019, 31, 207-215.	6.7	71

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37	Recent Advances in the Nanocatalyst-Assisted NaBH_4 Reduction of Nitroaromatics in Water. ACS Omega, 2019, 4, 483-495.	3.5	180
38	Facile synthesis of monodispersed Pd nanocatalysts decorated on graphene oxide for reduction of nitroaromatics in aqueous solution. Research on Chemical Intermediates, 2019, 45, 599-611.	2.7	75
39	Highly selective and sensitive chemoresistive humidity sensors based on rGO/MoS ₂ van der Waals composites. Journal of Materials Chemistry A, 2018, 6, 5016-5024.	10.3	132
40	Directly Assembled 3D Molybdenum Disulfide on Silicon Wafer for Efficient Photoelectrochemical Water Reduction. Advanced Sustainable Systems, 2018, 2, 1700142.	5.3	36
41	Nanogap-controlled Pd coating for hydrogen sensitive switches and hydrogen sensors. Sensors and Actuators B: Chemical, 2018, 255, 1841-1848.	7.8	42
42	p-n Heterojunction of Nickel Oxide-Decorated Cobalt Oxide Nanorods for Enhanced Sensitivity and Selectivity toward Volatile Organic Compounds. ACS Applied Materials & Interfaces, 2018, 10, 1050-1058.	8.0	103
43	Triple Planar Heterojunction of SnO ₂ /WO ₃ /BiVO ₄ with Enhanced Photoelectrochemical Performance under Front Illumination. Applied Sciences (Switzerland), 2018, 8, 1765.	2.5	17
44	Substantially enhanced front illumination photocurrent in porous SnO ₂ nanorods/networked BiVO ₄ heterojunction photoanodes. Journal of Materials Chemistry A, 2018, 6, 14633-14643.	10.3	30
45	Magnetically retrievable nanocomposite adorned with Pd nanocatalysts: efficient reduction of nitroaromatics in aqueous media. Green Chemistry, 2018, 20, 3809-3817.	9.0	143
46	Direct Observation of Surface Potential Distribution in Insulation Resistance Degraded Acceptor-Doped BaTiO ₃ Multilayered Ceramic Capacitors. Electronic Materials Letters, 2018, 14, 629-635.	2.2	15
47	Au decoration of vertical hematite nanotube arrays for further selective detection of acetone in exhaled breath. Sensors and Actuators B: Chemical, 2018, 274, 587-594.	7.8	35
48	Synthesis of Numerous Edge Sites in MoS ₂ via SiO ₂ Nanorods Platform for Highly Sensitive Gas Sensor. ACS Applied Materials & Interfaces, 2018, 10, 31594-31602.	8.0	79
49	Transfer of ultrathin molybdenum disulfide and transparent nanomesh electrode onto silicon for efficient heterojunction solar cells. Nano Energy, 2018, 50, 649-658.	16.0	26
50	Synergetically Selective Toluene Sensing in Hematite-Decorated Nickel Oxide Nanocorals. Advanced Materials Technologies, 2017, 2, 1600259.	5.8	41
51	Tungsten disulfide thin film/p-type Si heterojunction photocathode for efficient photochemical hydrogen production. MRS Communications, 2017, 7, 272-279.	1.8	29
52	Toward High-Performance Hematite Nanotube Photoanodes: Charge-Transfer Engineering at Heterointerfaces. ACS Applied Materials & Interfaces, 2016, 8, 23793-23800.	8.0	22