

Soo-Yeon Cho

List of Publications by Citations

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41
papers

2,487
citations

21
h-index

45
g-index

45
ext. papers

3,219
ext. citations

13.6
avg, IF

5.24
L-index

#	Paper	IF	Citations
41	Metallic TiCT MXene Gas Sensors with Ultrahigh Signal-to-Noise Ratio. <i>ACS Nano</i> , 2018 , 12, 986-993	16.7	664
40	Highly Enhanced Gas Adsorption Properties in Vertically Aligned MoS ₂ Layers. <i>ACS Nano</i> , 2015 , 9, 9314-216.7	16.7	310
39	Superior Chemical Sensing Performance of Black Phosphorus: Comparison with MoS ₂ and Graphene. <i>Advanced Materials</i> , 2016 , 28, 7020-8	24	267
38	An investigation into the factors governing the oxidation of two-dimensional TiC MXene. <i>Nanoscale</i> , 2019 , 11, 8387-8393	7.7	146
37	High-Resolution p-Type Metal Oxide Semiconductor Nanowire Array as an Ultrasensitive Sensor for Volatile Organic Compounds. <i>Nano Letters</i> , 2016 , 16, 4508-15	11.5	124
36	Tunable Chemical Sensing Performance of Black Phosphorus by Controlled Functionalization with Noble Metals. <i>Chemistry of Materials</i> , 2017 , 29, 7197-7205	9.6	95
35	Tunable Volatile-Organic-Compound Sensor by Using Au Nanoparticle Incorporation on MoS. <i>ACS Sensors</i> , 2017 , 2, 183-189	9.2	91
34	Enhanced Selectivity of MXene Gas Sensors through Metal Ion Intercalation: In Situ X-ray Diffraction Study. <i>ACS Sensors</i> , 2019 , 4, 1365-1372	9.2	84
33	Ultrasensitive Detection of VOCs Using a High-Resolution CuO/Cu ₂ O/Ag Nanopattern Sensor. <i>Advanced Functional Materials</i> , 2019 , 29, 1808319	15.6	72
32	An Ultrastable Ionic Chemiresistor Skin with an Intrinsically Stretchable Polymer Electrolyte. <i>Advanced Materials</i> , 2018 , 30, e1706851	24	54
31	Continuous Meter-Scale Synthesis of Weavable Tunicate Cellulose/Carbon Nanotube Fibers for High-Performance Wearable Sensors. <i>ACS Nano</i> , 2019 , 13, 9332-9341	16.7	54
30	In Situ Formation of Multiple Schottky Barriers in a Ti ₃ C ₂ MXene Film and its Application in Highly Sensitive Gas Sensors. <i>Advanced Functional Materials</i> , 2020 , 30, 2003998	15.6	52
29	Ultrasmall Grained Pd Nanopattern H Sensor. <i>ACS Sensors</i> , 2018 , 3, 1876-1883	9.2	47
28	Well-defined and high resolution Pt nanowire arrays for a high performance hydrogen sensor by a surface scattering phenomenon. <i>Analytical Chemistry</i> , 2015 , 87, 1480-4	7.8	45
27	Recent Progress in Simple and Cost-Effective Top-Down Lithography for 10 nm Scale Nanopatterns: From Edge Lithography to Secondary Sputtering Lithography. <i>Advanced Materials</i> , 2020 , 32, e1907101	24	32
26	Ambient Stabilization of Few Layer Phosphorene via Noncovalent Functionalization with Surfactants: Systematic 2D NMR Characterization in Aqueous Dispersion. <i>Chemistry of Materials</i> , 2019 , 31, 2786-2794	9.6	30
25	Highly Enhanced Fluorescence Signals of Quantum Dot-Polymer Composite Arrays Formed by Hybridization of Ultrathin Plasmonic Au Nanowalls. <i>Nano Letters</i> , 2015 , 15, 7273-80	11.5	30

24	Large-Area Buckled MoS ₂ Films on the Graphene Substrate. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13512-9	9.5	30
23	Edge-Functionalized Graphene Nanoribbon Chemical Sensor: Comparison with Carbon Nanotube and Graphene. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42905-42914	9.5	28
22	Polyelemental Nanolithography via Plasma Ion Bombardment: From Fabrication to Superior H Sensing Application. <i>Advanced Materials</i> , 2019 , 31, e1805343	24	22
21	Molybdenum carbide chemical sensors with ultrahigh signal-to-noise ratios and ambient stability. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 23408-23416	13	21
20	Multiarray Nanopattern Electronic Nose (E-Nose) by High-Resolution Top-Down Nanolithography. <i>Advanced Functional Materials</i> , 2020 , 30, 2002486	15.6	18
19	Finding Hidden Signals in Chemical Sensors Using Deep Learning. <i>Analytical Chemistry</i> , 2020 , 92, 6529-6538		18
18	Hierarchical Ordering of Quantum Dots and Liquid with Tunable Super-Periodicity into High Aspect Ratio Moiré Superlattice Structure. <i>Advanced Functional Materials</i> , 2014 , 24, 6939-6947	15.6	18
17	Distinct Mechanosensing of Human Neural Stem Cells on Extremely Limited Anisotropic Cellular Contact. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 33891-33900	9.5	18
16	Direct Observation of Highly Ordered Dendrimer Soft Building Blocks over a Large Area. <i>Nano Letters</i> , 2015 , 15, 7552-7	11.5	16
15	Ten Nanometer Scale WO ₃ /CuO Heterojunction Nanochannel for an Ultrasensitive Chemical Sensor. <i>Analytical Chemistry</i> , 2019 , 91, 6850-6858	7.8	15
14	Facile Fabrication of High-Definition Hierarchical Wrinkle Structures for Investigating the Geometry-Sensitive Fate Commitment of Human Neural Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17247-17255	9.5	14
13	Highly Periodic Metal Dichalcogenide Nanostructures with Complex Shapes, High Resolution, and High Aspect Ratios. <i>Advanced Functional Materials</i> , 2017 , 27, 1703842	15.6	11
12	A Fiber Optic Interface Coupled to Nanosensors: Applications to Protein Aggregation and Organic Molecule Quantification. <i>ACS Nano</i> , 2020 , 14, 10141-10152	16.7	10
11	Scalable Superior Chemical Sensing Performance of Stretchable Ionotronic Skin via a Hole Receptor Effect. <i>Advanced Materials</i> , 2021 , 33, e2007605	24	10
10	Intact Crystalline Semiconducting Graphene Nanoribbons from Unzipping Nitrogen-Doped Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38006-38015	9.5	9
9	Rational Design of Aminopolymer for Selective Discrimination of Acidic Air Pollutants. <i>ACS Sensors</i> , 2018 , 3, 1329-1337	9.2	9
8	Antibody-Free Rapid Detection of SARS-CoV-2 Proteins Using Corona Phase Molecular Recognition to Accelerate Development Time. <i>Analytical Chemistry</i> , 2021 , 93, 14685-14693	7.8	8
7	Hierarchical Metal Oxide Wrinkles as Responsive Chemical Sensors. <i>ACS Applied Nano Materials</i> , 2019 , 2, 5520-5526	5.6	5

6	Selective Functionalization of High-Resolution CuO Nanopatterns via Galvanic Replacement for Highly Enhanced Gas Sensing Performance. <i>Sensors</i> , 2018 , 18,	3.8	5
5	Cellular lensing and near infrared fluorescent nanosensor arrays to enable chemical efflux cytometry. <i>Nature Communications</i> , 2021 , 12, 3079	17.4	4
4	High-Resolution Nanopatterning: Recent Progress in Simple and Cost-Effective Top-Down Lithography for 10 nm Scale Nanopatterns: From Edge Lithography to Secondary Sputtering Lithography (Adv. Mater. 35/2020). <i>Advanced Materials</i> , 2020 , 32, 2070263	24	1
3	P3-184: Large intracranial volume accelerates conversion to dementia in males and ApoE4 noncarriers with mild cognitive impairment: A preliminary report 2015 , 11, P701-P702		
2	Gas Sensing: Scalable Superior Chemical Sensing Performance of Stretchable Ionotronic Skin via a Hole Receptor Effect (Adv. Mater. 13/2021). <i>Advanced Materials</i> , 2021 , 33, 2170102	24	
1	Sensors: An Ultrastable Ionic Chemiresistor Skin with an Intrinsically Stretchable Polymer Electrolyte (Adv. Mater. 20/2018). <i>Advanced Materials</i> , 2018 , 30, 1870140	24	