Soo-Yeon Cho

List of Publications by Year in Descending Order

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	Antibody-Free Rapid Detection of SARS-CoV-2 Proteins Using Corona Phase Molecular Recognition to Accelerate Development Time. *Analytical Chemistry*, **2021**, 93, 14685-14693	7.8	8
40	Gas Sensing: Scalable Superior Chemical Sensing Performance of Stretchable Ionotronic Skin via a Hole Receptor Effect (Adv. Mater. 13/2021). *Advanced Materials*, **2021**, 33, 2170102	24	
39	Cellular lensing and near infrared fluorescent nanosensor arrays to enable chemical efflux cytometry. *Nature Communications*, **2021**, 12, 3079	17.4	4
38	Scalable Superior Chemical Sensing Performance of Stretchable Ionotronic Skin via a Hole Receptor Effect. *Advanced Materials*, **2021**, 33, e2007605	24	10
37	Multiarray Nanopattern Electronic Nose (E-Nose) by High-Resolution Top-Down Nanolithography. *Advanced Functional Materials*, **2020**, 30, 2002486	15.6	18
36	Recent Progress in Simple and Cost-Effective Top-Down Lithography for 10 nm Scale Nanopatterns: From Edge Lithography to Secondary Sputtering Lithography. *Advanced Materials*, **2020**, 32, e1907101	24	32
35	Finding Hidden Signals in Chemical Sensors Using Deep Learning. *Analytical Chemistry*, **2020**, 92, 6529-6537	7.8	18
34	A Fiber Optic Interface Coupled to Nanosensors: Applications to Protein Aggregation and Organic Molecule Quantification. *ACS Nano*, **2020**, 14, 10141-10152	16.7	10
33	In Situ Formation of Multiple Schottky Barriers in a Ti3C2 MXene Film and its Application in Highly Sensitive Gas Sensors. *Advanced Functional Materials*, **2020**, 30, 2003998	15.6	52
32	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). *Advanced Materials*, **2020**, 32, 2070263	24	1
31	Intact Crystalline Semiconducting Graphene Nanoribbons from Unzipping Nitrogen-Doped Carbon Nanotubes. *ACS Applied Materials & Interfaces*, **2019**, 11, 38006-38015	9.5	9
30	Enhanced Selectivity of MXene Gas Sensors through Metal Ion Intercalation: In Situ X-ray Diffraction Study. *ACS Sensors*, **2019**, 4, 1365-1372	9.2	84
29	Facile Fabrication of High-Definition Hierarchical Wrinkle Structures for Investigating the Geometry-Sensitive Fate Commitment of Human Neural Stem Cells. *ACS Applied Materials & Interfaces*, **2019**, 11, 17247-17255	9.5	14
28	Ten Nanometer Scale WO/CuO Heterojunction Nanochannel for an Ultrasensitive Chemical Sensor. *Analytical Chemistry*, **2019**, 91, 6850-6858	7.8	15
27	Ambient Stabilization of Few Layer Phosphorene via Noncovalent Functionalization with Surfactants: Systematic 2D NMR Characterization in Aqueous Dispersion. *Chemistry of Materials*, **2019**, 31, 2786-2794	9.6	30
26	An investigation into the factors governing the oxidation of two-dimensional TiC MXene. *Nanoscale* , **2019**, 11, 8387-8393	7.7	146
25	Hierarchical Metal Oxide Wrinkles as Responsive Chemical Sensors. *ACS Applied Nano Materials*, **2019**, 2, 5520-5526	5.6	5

24	Continuous Meter-Scale Synthesis of Weavable Tunicate Cellulose/Carbon Nanotube Fibers for High-Performance Wearable Sensors. *ACS Nano*, **2019**, 13, 9332-9341	16.7	54
23	Ultrasensitive Detection of VOCs Using a High-Resolution CuO/Cu2O/Ag Nanopattern Sensor. *Advanced Functional Materials*, **2019**, 29, 1808319	15.6	72
22	Polyelemental Nanolithography via Plasma Ion Bombardment: From Fabrication to Superior H Sensing Application. *Advanced Materials*, **2019**, 31, e1805343	24	22
21	An Ultrastable Ionic Chemiresistor Skin with an Intrinsically Stretchable Polymer Electrolyte. *Advanced Materials*, **2018**, 30, e1706851	24	54
20	Metallic TiCT MXene Gas Sensors with Ultrahigh Signal-to-Noise Ratio. *ACS Nano*, **2018**, 12, 986-993	16.7	664
19	Rational Design of Aminopolymer for Selective Discrimination of Acidic Air Pollutants. *ACS Sensors*, **2018**, 3, 1329-1337	9.2	9
18	Molybdenum carbide chemical sensors with ultrahigh signal-to-noise ratios and ambient stability. *Journal of Materials Chemistry A*, **2018**, 6, 23408-23416	13	21
17	Edge-Functionalized Graphene Nanoribbon Chemical Sensor: Comparison with Carbon Nanotube and Graphene. *ACS Applied Materials & Interfaces*, **2018**, 10, 42905-42914	9.5	28
16	Selective Functionalization of High-Resolution CuO Nanopatterns via Galvanic Replacement for Highly Enhanced Gas Sensing Performance. *Sensors*, **2018**, 18,	3.8	5
15	Ultrasmall Grained Pd Nanopattern H Sensor. *ACS Sensors*, **2018**, 3, 1876-1883	9.2	47
14	Distinct Mechanosensing of Human Neural Stem Cells on Extremely Limited Anisotropic Cellular Contact. *ACS Applied Materials & Interfaces*, **2018**, 10, 33891-33900	9.5	18
13	Sensors: An Ultrastable Ionic Chemiresistor Skin with an Intrinsically Stretchable Polymer Electrolyte (Adv. Mater. 20/2018). *Advanced Materials*, **2018**, 30, 1870140	24	
12	Tunable Volatile-Organic-Compound Sensor by Using Au Nanoparticle Incorporation on MoS. *ACS Sensors*, **2017**, 2, 183-189	9.2	91
11	Highly Periodic Metal Dichalcogenide Nanostructures with Complex Shapes, High Resolution, and High Aspect Ratios. *Advanced Functional Materials*, **2017**, 27, 1703842	15.6	11
10	Tunable Chemical Sensing Performance of Black Phosphorus by Controlled Functionalization with Noble Metals. *Chemistry of Materials*, **2017**, 29, 7197-7205	9.6	95
9	High-Resolution p-Type Metal Oxide Semiconductor Nanowire Array as an Ultrasensitive Sensor for Volatile Organic Compounds. *Nano Letters*, **2016**, 16, 4508-15	11.5	124
8	Superior Chemical Sensing Performance of Black Phosphorus: Comparison with MoS2 and Graphene. *Advanced Materials*, **2016**, 28, 7020-8	24	267
7	Large-Area Buckled MoS2 Films on the Graphene Substrate. *ACS Applied Materials & Interfaces*, **2016**, 8, 13512-9	9.5	30

6	Highly Enhanced Fluorescence Signals of Quantum Dot-Polymer Composite Arrays Formed by Hybridization of Ultrathin Plasmonic Au Nanowalls. *Nano Letters*, **2015**, 15, 7273-80	11.5	30
5	Direct Observation of Highly Ordered Dendrimer Soft Building Blocks over a Large Area. *Nano Letters*, **2015**, 15, 7552-7	11.5	16
4	Highly Enhanced Gas Adsorption Properties in Vertically Aligned MoS2 Layers. *ACS Nano*, **2015**, 9, 9314-21	16.7	310
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	Well-defined and high resolution Pt nanowire arrays for a high performance hydrogen sensor by a surface scattering phenomenon. *Analytical Chemistry*, **2015**, 87, 1480-4	7.8	45
1	Hierarchical Ordering of Quantum Dots and Liquid with Tunable Super-Periodicity into High Aspect Ratio Moir Superlattice Structure. *Advanced Functional Materials*, **2014**, 24, 6939-6947	15.6	18