

Soo Ho Choi

List of Publications by Year in descending order

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39
papers

1,453
citations

516215

16
h-index

329751

37
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40
all docs

40
docs citations

40
times ranked

2739
citing authors

#	ARTICLE	IF	CITATIONS
1	Drift-dominant exciton funneling and trion conversion in 2D semiconductors on the nanogap. <i>Science Advances</i> , 2022, 8, eabm5236.	4.7	21
2	Large-scale synthesis of graphene and other 2D materials towards industrialization. <i>Nature Communications</i> , 2022, 13, 1484.	5.8	123
3	Hydrogen evolution reaction catalyst with high catalytic activity by interplay between organic molecules and transition metal dichalcogenide monolayers. <i>Materials Today Energy</i> , 2022, 25, 100976.	2.5	4
4	Polarized Raman study of large built-in strain in monolayer WS ₂ grown on Au/W substrate. <i>Current Applied Physics</i> , 2022, 37, 33-38.	1.1	2
5	Atomic and structural modifications of two-dimensional transition metal dichalcogenides for various advanced applications. <i>Chemical Science</i> , 2022, 13, 7707-7738.	3.7	28
6	Multilayer 2D insulator shows promise for post-silicon electronics. <i>Nature</i> , 2022, 606, 37-38.	13.7	0
7	Sequential Growth of Vertical Transition-Metal Dichalcogenide Heterostructures on Rollable Aluminum Foil. <i>ACS Nano</i> , 2022, 16, 8851-8859.	7.3	8
8	Exciton Transfer at Heterointerfaces of MoS ₂ Monolayers and Fluorescent Molecular Aggregates. <i>Advanced Science</i> , 2022, 9, .	5.6	5
9	Universal Transfer of 2D Materials Grown on Au Substrate Using Sulfur Intercalation. <i>Applied Science and Convergence Technology</i> , 2021, 30, 45-49.	0.3	1
10	Epitaxial Single-Crystal Growth of Transition Metal Dichalcogenide Monolayers via the Atomic Sawtooth Au Surface. <i>Advanced Materials</i> , 2021, 33, e2006601.	11.1	55
11	Tip-Induced Nano-Engineering of Strain, Bandgap, and Exciton Funneling in 2D Semiconductors. <i>Advanced Materials</i> , 2021, 33, e2008234.	11.1	44
12	Toward non-gas-permeable hBN film growth on smooth Fe surface. <i>2D Materials</i> , 2021, 8, 034003.	2.0	5
13	Substitutional Vanadium Sulfide Nanodispersed in MoS ₂ Film for Pt-Scalable Catalyst. <i>Advanced Science</i> , 2021, 8, e2003709.	5.6	19
14	Anomalous Light-Induced Charging in MoS ₂ Monolayers with Cracks. <i>ACS Applied Electronic Materials</i> , 2021, 3, 5265-5271.	2.0	3
15	Atomistic mechanisms of seeding promoter-controlled growth of molybdenum disulphide. <i>2D Materials</i> , 2020, 7, 015013.	2.0	11
16	Opposite Polarity Surface Photovoltage of MoS ₂ Monolayers on Au Nanodot versus Nanohole Arrays. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 48991-48997.	4.0	15
17	Polarization-Dependent Light Emission and Charge Creation in MoS ₂ Monolayers on Plasmonic Au Nanogratings. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 44088-44093.	4.0	6
18	NO _x gas sensors based on layer-transferred n-MoS ₂ /p-GaN heterojunction at room temperature: Study of UV light illuminations and humidity. <i>Sensors and Actuators B: Chemical</i> , 2020, 308, 127700.	4.0	87

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19	Room-Temperature Ferromagnetic Ultrathin $\text{In}_2\text{MoO}_7\text{:Te}$ Nanoflakes. <i>ACS Nano</i> , 2019, 13, 8717-8724.	7.3	24
20	Poly(methyl methacrylate)-derived graphene films on different substrates using rapid thermal process: a way to control the film properties through the substrate and polymer layer thickness. <i>Journal of Materials Research and Technology</i> , 2019, 8, 3752-3763.	2.6	7
21	One-Dimensional Single-Chain Nb_2Se_9 as Efficient Electrocatalyst for Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2019, 2, 5785-5792.	2.5	18
22	Boosting the photocatalytic hydrogen evolution performance via an atomically thin 2D heterojunction visualized by scanning photoelectrochemical microscopy. <i>Nano Energy</i> , 2019, 65, 104053.	8.2	18
23	Alkali Metal-Assisted Growth of Single-Layer Molybdenum Disulfide. <i>Journal of the Korean Physical Society</i> , 2019, 74, 1032-1038.	0.3	8
24	An alternative method for measurement of charge carrier mobility in semiconductors using photocurrent transient response. <i>Current Applied Physics</i> , 2019, 19, 498-502.	1.1	5
25	Wafer-Scale van der Waals Heterostructures with Ultraclean Interfaces via the Aid of Viscoelastic Polymer. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1579-1586.	4.0	17
26	Facile enhancement of photocatalytic efficiency of $\text{g-C}_3\text{N}_4$ by Li-intercalation. <i>Catalysis Today</i> , 2019, 321-322, 67-73.	2.2	26
27	Synthesis of Transition Metal Disulfides with Liquid Ammonium Sulfide as a Reliable Sulfur Precursor. <i>Applied Science and Convergence Technology</i> , 2019, 28, 60-65.	0.3	7
28	Proton beam flux dependent work function of mono-layer MoS_2 . <i>Thin Solid Films</i> , 2018, 660, 766-770.	0.8	14
29	Wafer-scale single-crystal hexagonal boron nitride film via self-collimated grain formation. <i>Science</i> , 2018, 362, 817-821.	6.0	336
30	Effects of contact material on complex excitonic behaviour of monolayer MoS_2 . <i>Optical Materials</i> , 2018, 84, 870-873.	1.7	4
31	Charge transferred doping of single layer graphene by mono-dispersed manganese-oxide nanoparticles adsorption. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	7
32	A Novel and Facile Route to Synthesize Atomic-Layered MoS_2 Film for Large-Area Electronics. <i>Small</i> , 2017, 13, 1701306.	5.2	53
33	Synthesis of Large-Area Tungsten Disulfide Films on Pre-Reduced Tungsten Suboxide Substrates. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 43021-43029.	4.0	29
34	Water-Assisted Synthesis of Molybdenum Disulfide Film with Single Organic Liquid Precursor. <i>Scientific Reports</i> , 2017, 7, 1983.	1.6	27
35	Thickness-controlled multilayer hexagonal boron nitride film prepared by plasma-enhanced chemical vapor deposition. <i>Current Applied Physics</i> , 2016, 16, 1229-1235.	1.1	18
36	Patterning of periodic ripples in monolayer MoS_2 by using laser irradiation. <i>Journal of the Korean Physical Society</i> , 2016, 69, 1505-1508.	0.3	6

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37	Effective characterization of polymer residues on two-dimensional materials by Raman spectroscopy. <i>Nanotechnology</i> , 2015, 26, 485701.	1.3	7
38	Large-Area Monolayer Hexagonal Boron Nitride on Pt Foil. <i>ACS Nano</i> , 2014, 8, 8520-8528.	7.3	200
39	Layer-number-dependent work function of MoS ₂ nanoflakes. <i>Journal of the Korean Physical Society</i> , 2014, 64, 1550-1555.	0.3	185