

Won Seok Yun

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,796
citations

393982

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197535

49
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all docs

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docs citations

51
times ranked

5134
citing authors

#	ARTICLE	IF	CITATIONS
1	Multilayer WSe ₂ /MoS ₂ Heterojunction Phototransistors through Periodically Arrayed Nanopore Structures for Bandgap Engineering. <i>Advanced Materials</i> , 2022, 34, e2108412.	11.1	21
2	Phase transition of a MoS ₂ monolayer through top layer desulfurization by He ⁺ ion irradiation. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	4
3	Parasitic Current Induced by Gate Overlap in Thin-Film Transistors. <i>Materials</i> , 2021, 14, 2299.	1.3	0
4	Interface Defect Engineering of a Large-Scale CVD-Grown MoS ₂ Monolayer via Residual Sodium at the SiO ₂ /Si Substrate. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100428.	1.9	14
5	Hole doping effect of MoS ₂ via electron capture of He ⁺ ion irradiation. <i>Scientific Reports</i> , 2021, 11, 23590.	1.6	8
6	Breaking the absorption limit of Si toward SWIR wavelength range via strain engineering. <i>Science Advances</i> , 2020, 6, eabb0576.	4.7	36
7	Measurement of Exciton and Trion Energies in Multistacked hBN/WS ₂ Coupled Quantum Wells for Resonant Tunneling Diodes. <i>ACS Nano</i> , 2020, 14, 16114-16121.	7.3	15
8	Graphene-mediated enhanced Raman scattering and coherent light lasing from CsPbI ₃ perovskite nanorods. <i>Nano Energy</i> , 2020, 70, 104497.	8.2	9
9	Single-layer CdPSe ₃ : A promising thermoelectric material persisting in high temperatures. <i>Applied Physics Letters</i> , 2019, 115, 193105.	1.5	10
10	Thermally driven homonuclear-stacking phase of MoS ₂ through desulfurization. <i>Nanoscale</i> , 2019, 11, 11138-11144.	2.8	4
11	Stacking-controllable interlayer coupling and symmetric configuration of multilayered MoS ₂ . <i>NPG Asia Materials</i> , 2018, 10, e468-e468.	3.8	90
12	Transient SHG Imaging on Ultrafast Carrier Dynamics of MoS ₂ Nanosheets. <i>Advanced Materials</i> , 2018, 30, e1705190.	11.1	23
13	Carrier Dynamics: Transient SHG Imaging on Ultrafast Carrier Dynamics of MoS ₂ Nanosheets (Adv.) <i>Tj ETQq1 1 0.784314 rgBT /Overl</i>	11.1	0
14	Exploring a Novel Atomic Layer with Extremely Low Lattice Thermal Conductivity: ZnPSe ₃ and Its Thermoelectrics. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27917-27924.	1.5	18
15	New Method to Determine the Schottky Barrier in Few-Layer Black Phosphorus Metal Contacts. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7873-7877.	4.0	15
16	Local Strain Induced Band Gap Modulation and Photoluminescence Enhancement of Multilayer Transition Metal Dichalcogenides. <i>Chemistry of Materials</i> , 2017, 29, 5124-5133.	3.2	97
17	Thickness-Dependent Phonon Renormalization and Enhanced Raman Scattering in Ultrathin Silicon Nanomembranes. <i>Nano Letters</i> , 2017, 17, 7744-7750.	4.5	15
18	Multiple Coordination Exchanges for Room-Temperature Activation of Open-Metal Sites in Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 24743-24752.	4.0	69

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19	Two-dimensional semiconductors ZrNCl and HfNCl: Stability, electric transport, and thermoelectric properties. <i>Scientific Reports</i> , 2017, 7, 17330.	1.6	30
20	Magnetocrystalline anisotropy of pure magnetic semiconductors of MnGeP2 and MnGeAs2: A first-principles study. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 419, 202-209.	1.0	6
21	Rectifying the Optical-Field-Induced Current in Dielectrics: Petahertz Diode. <i>Physical Review Letters</i> , 2016, 116, 057401.	2.9	16
22	Topological band-order transition and quantum spin Hall edge engineering in functionalized X-Bi(111) (X=Ga, In, and Tl) bilayer. <i>Scientific Reports</i> , 2016, 6, 33395.	1.6	7
23	Effect of interlayer interactions on exciton luminescence in atomic-layered MoS2 crystals. <i>Scientific Reports</i> , 2016, 6, 29813.	1.6	34
24	Schottky barrier tuning of the single-layer MoS2 on magnetic metal substrates through vacancy defects and hydrogenation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31027-31032.	1.3	7
25	Theory of perpendicular magnetocrystalline anisotropy in Fe/MgO (001). <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 414, 126-131.	1.0	18
26	Hydrogenation-induced atomic stripes on the MoS2 surface. <i>Physical Review B</i> , 2015, 92, .	1.1	32
27	Optical Absorption of Armchair MoS2 Nanoribbons: Enhanced Correlation Effects in the Reduced Dimension. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13901-13906.	1.5	20
28	Strain-Induced Magnetism in Single-Layer MoS2: Origin and Manipulation. <i>Journal of Physical Chemistry C</i> , 2015, 119, 2822-2827.	1.5	70
29	A Chemical Route to Activation of Open Metal Sites in the Copper-Based Metal-Organic Framework Materials HKUST-1 and Cu-MOF-2. <i>Journal of the American Chemical Society</i> , 2015, 137, 10009-10015.	6.6	199
30	A ruthenium complex as a single-component redox shuttle for electrochemical photovoltaics. <i>Chemical Communications</i> , 2015, 51, 7745-7748.	2.2	4
31	Giant Rashba-type splitting in molybdenum-driven bands of MoS2/Bi2O3 heterostructure. <i>Physical Review B</i> , 2015, 91, .	1.1	46
32	Ultrafast above-transition-temperature resurrection of spin density wave driven by coherent phonon generation in BaFe2As2. <i>New Journal of Physics</i> , 2014, 16, 043010.	1.2	4
33	A first-principles study of magnetostrictions of Fe3O4 and CoFe2O4. <i>Journal of Applied Physics</i> , 2014, 115, .	1.1	26
34	Unexpected strong magnetism of Cu doped single-layer MoS2 and its origin. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8990-8996.	1.3	107
35	Controlling Ferromagnetic Easy Axis in a Layered MoS2 Single Crystal. <i>Physical Review Letters</i> , 2013, 110, 247201.	2.9	108
36	Strong perpendicular magnetocrystalline anisotropy of bulk and the (001) surface of DO22Mn3Ga: a density functional study. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 416003.	0.7	10

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37	Electronic origin of the negligible magnetostriction of an electric steel Fe _{1-x} Si _x alloy: A density-functional study. Journal of Applied Physics, 2012, 111, .	1.1	2
38	Band-gap expansion in the surface-localized electronic structure of MoS ₂ (0002). Physical Review B, 2012, 86, .	1.1	47
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