

# 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

19  
h-index

197535

49  
g-index

51  
all docs

51  
docs citations

51  
times ranked

5134  
citing authors

#	ARTICLEs and strain effects on electronic structures of transition metal dichalcogenides:	IF	CITATIONS
1	ZH<math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>M</mml:mi><mml:msub><mml:mi>X</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow>		

#	ARTICLE	IF	CITATIONS
19	Multilayer WSe <sub>2</sub> /MoS <sub>2</sub> Heterojunction Phototransistors through Periodically Arrayed Nanopore Structures for Bandgap Engineering. <i>Advanced Materials</i> , 2022, 34, e2108412.	11.1	21
20	Optical Absorption of Armchair MoS <sub>2</sub> Nanoribbons: Enhanced Correlation Effects in the Reduced Dimension. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13901-13906.	1.5	20
21	Theory of perpendicular magnetocrystalline anisotropy in Fe/MgO (001). <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 414, 126-131.	1.0	18
22	Exploring a Novel Atomic Layer with Extremely Low Lattice Thermal Conductivity: ZnPSe <sub>3</sub> and Its Thermoelectrics. <i>Journal of Physical Chemistry C</i> , 2018, 122, 27917-27924.	1.5	18
23	Engineering of magnetostriction in Fe <sub>3</sub> Pt <sub>1-x</sub> Ir <sub>x</sub> by controlling the Ir concentration. <i>Applied Physics Letters</i> , 2011, 98, 152502.	1.5	16
24	Rectifying the Optical-Field-Induced Current in Dielectrics: Petahertz Diode. <i>Physical Review Letters</i> , 2016, 116, 057401.	2.9	16
25	New Method to Determine the Schottky Barrier in Few-Layer Black Phosphorus Metal Contacts. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 7873-7877.	4.0	15
26	Thickness-Dependent Phonon Renormalization and Enhanced Raman Scattering in Ultrathin Silicon Nanomembranes. <i>Nano Letters</i> , 2017, 17, 7744-7750.	4.5	15
27	Measurement of Exciton and Trion Energies in Multistacked hBN/WS <sub>2</sub> Coupled Quantum Wells for Resonant Tunneling Diodes. <i>ACS Nano</i> , 2020, 14, 16114-16121.	7.3	15
28	Interface Defect Engineering of a Large-Scale CVD-Grown MoS <sub>2</sub> Monolayer via Residual Sodium at the SiO <sub>2</sub> /Si Substrate. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100428.	1.9	14
29	Magnetocrystalline anisotropy energy and spin polarization of Fe <sub>3</sub> Si in bulk and on Si(001) and Si(111) substrates. <i>Thin Solid Films</i> , 2011, 519, 8218-8222.	0.8	12
30	Strong perpendicular magnetocrystalline anisotropy of bulk and the (001) surface of DO <sub>22</sub> Mn <sub>3</sub> Ga: a density functional study. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 416003.	0.7	10
31	Single-layer CdPSe <sub>3</sub> : A promising thermoelectric material persisting in high temperatures. <i>Applied Physics Letters</i> , 2019, 115, 193105.	1.5	10
32	Half-metallic ferromagnetism of (CrP) <sub>1</sub> /(GaP) <sub>1</sub> superlattice: A first-principles study. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 2138-2140.	1.0	9
33	Magnetocrystalline anisotropy of zinc-blende CrTe (001) surface: A first-principles study. <i>Thin Solid Films</i> , 2011, 519, 8355-8358.	0.8	9
34	Graphene-mediated enhanced Raman scattering and coherent light lasing from CsPbI <sub>3</sub> perovskite nanorods. <i>Nano Energy</i> , 2020, 70, 104497.	8.2	9
35	Hole doping effect of MoS <sub>2</sub> via electron capture of He <sup>+</sup> ion irradiation. <i>Scientific Reports</i> , 2021, 11, 23590.	1.6	8
36	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

#	ARTICLE	IF	CITATIONS
37	Schottky barrier tuning of the single-layer MoS <sub>2</sub> on magnetic metal substrates through vacancy defects and hydrogenation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31027-31032.	1.3	7
38	Half-Metallicity and Magnetism of Zinc-Blende Cr-Chalcogenide (001) Surfaces: Density Functional Study. <i>Journal of the Korean Physical Society</i> , 2008, 53, 384-387.	0.3	7
39	Magnetocrystalline anisotropy of pure magnetic semiconductors of MnGeP <sub>2</sub> and MnGeAs <sub>2</sub> : A first-principles study. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 419, 202-209.	1.0	6
40	First-principles calculations on electronic structure and magnetism of $\hat{\Gamma}^2$ -Mn. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 304, e477-e479.	1.0	4
41	Electron mediated/enhanced ferromagnetism in a hydrogen-annealed Mn:Ge magnetic semiconductor. <i>Journal of Applied Physics</i> , 2011, 109, 063912.	1.1	4
42	The trapping of N <sub>2</sub> molecules and the reduction in its bonding length in Ge(001) due to N <sub>2</sub> <sup>+</sup> ion implantation. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	4
43	Ultrafast above-transition-temperature resurrection of spin density wave driven by coherent phonon generation in BaFe <sub>2</sub> As <sub>2</sub> . <i>New Journal of Physics</i> , 2014, 16, 043010.	1.2	4
44	A ruthenium complex as a single-component redox shuttle for electrochemical photovoltaics. <i>Chemical Communications</i> , 2015, 51, 7745-7748.	2.2	4
45	Thermally driven homonuclear-stacking phase of MoS <sub>2</sub> through desulfurization. <i>Nanoscale</i> , 2019, 11, 11138-11144.	2.8	4
46	Phase transition of a MoS <sub>2</sub> monolayer through top layer desulfurization by He <sup>+</sup> ion irradiation. <i>Journal of Applied Physics</i> , 2022, 131, .	1.1	4
47	Magnetism of Co layers Grown on W(001) Surface: Density Functional Study. <i>Journal of the Korean Physical Society</i> , 2010, 56, 1472-1477.	0.3	3
48	Electronic origin of the negligible magnetostriction of an electric steel Fe <sub>1-x</sub> Si <sub>x</sub> alloy: A density-functional study. <i>Journal of Applied Physics</i> , 2012, 111, .	1.1	2
49	The electronic structure and magnetism of GdSi <sub>2</sub> by first-principles study. <i>Journal of Magnetism and Magnetic Materials</i> , 2006, 304, e31-e33.	1.0	1
50	Carrier Dynamics: Transient SHG Imaging on Ultrafast Carrier Dynamics of MoS <sub>2</sub> Nanosheets (Adv.) <i>Tj ETQq0 0 0 rgBT/Overlock 10 Tf 5</i>	11.1	0
51	Parasitic Current Induced by Gate Overlap in Thin-Film Transistors. <i>Materials</i> , 2021, 14, 2299.	1.3	0