

# Junsoo Park

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6139995/publications.pdf>

Version: 2024-02-01

13  
papers

581  
citations

840776

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h-index

1199594

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g-index

13  
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13  
docs citations

13  
times ranked

542  
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient calculation of carrier scattering rates from first principles. Nature Communications, 2021, 12, 2222.	12.8	205
2	When band convergence is not beneficial for thermoelectrics. Nature Communications, 2021, 12, 3425.	12.8	51
3	High Thermoelectric Power Factor and Efficiency from a Highly Dispersive Band in $\text{Ba}_2\text{BiAu}$ . Physical Review Applied, 2019, 11, .	3.8	49
4	Wafer-Scale Black Arsenic-Phosphorus Thin-Film Synthesis Validated with Density Functional Perturbation Theory Predictions. ACS Applied Nano Materials, 2018, 1, 4737-4745.	5.0	42
5	Compromise between band structure and phonon scattering in efficient n-Mg <sub>3</sub> Sb <sub>2</sub> -Bi thermoelectrics. Materials Today Physics, 2021, 18, 100362.	6.0	41
6	Experimental validation of high thermoelectric performance in RECuZnP <sub>2</sub> predicted by high-throughput DFT calculations. Materials Horizons, 2021, 8, 209-215.	12.2	38
7	High Thermoelectric Power Factor in Intermetallic CoSi Arising from Energy Filtering of Electrons by Phonon Scattering. Physical Review Applied, 2019, 11, .	3.8	31
8	How to analyse a density of states. , 2022, 1, 100002.		28
9	High Thermoelectric Performance and Defect Energetics of Multipocketed Full Heusler Compounds. Physical Review Applied, 2020, 14, .	3.8	25
10	Optimal band structure for thermoelectrics with realistic scattering and bands. Npj Computational Materials, 2021, 7, .	8.7	25
11	First-principles assessment of thermoelectric properties of CuFeS <sub>2</sub> . Journal of Applied Physics, 2019, 125, .	2.5	22
12	Exceptionally high electronic mobility in defect-rich $\text{Eu}_2\text{ZnSb}_2\text{Bi}_x$ alloys. Journal of Materials Chemistry A, 2020, 8, 6004-6012.	10.3	18
13	Leveraging electron-phonon interaction to enhance the thermoelectric power factor in graphene-like semimetals. Physical Review B, 2019, 100, .	3.2	6