

Fengyuan Shi

List of Publications by Year in descending order

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35
papers

4,240
citations

279798

23
h-index

345221

36
g-index

40
all docs

40
docs citations

40
times ranked

5411
citing authors

#	ARTICLE	IF	CITATIONS
1	High Thermoelectric Performance of p-Type SnTe via a Synergistic Band Engineering and Nanostructuring Approach. <i>Journal of the American Chemical Society</i> , 2014, 136, 7006-7017.	13.7	553
2	Non-equilibrium processing leads to record high thermoelectric figure of merit in PbTe/SrTe. <i>Nature Communications</i> , 2016, 7, 12167.	12.8	498
3	Codoping in SnTe: Enhancement of Thermoelectric Performance through Synergy of Resonance Levels and Band Convergence. <i>Journal of the American Chemical Society</i> , 2015, 137, 5100-5112.	13.7	394
4	Valence Band Modification and High Thermoelectric Performance in SnTe Heavily Alloyed with MnTe. <i>Journal of the American Chemical Society</i> , 2015, 137, 11507-11516.	13.7	371
5	Extraordinary role of Hg in enhancing the thermoelectric performance of p-type SnTe. <i>Energy and Environmental Science</i> , 2015, 8, 267-277.	30.8	347
6	Influence of Stoichiometry on the Optical and Electrical Properties of Chemical Vapor Deposition Derived MoS ₂ . <i>ACS Nano</i> , 2014, 8, 10551-10558.	14.6	281
7	High Thermoelectric Performance SnTe/In ₂ Te ₃ Solid Solutions Enabled by Resonant Levels and Strong Vacancy Phonon Scattering. <i>Chemistry of Materials</i> , 2015, 27, 7801-7811.	6.7	191
8	Rational design of silicon structures for optically controlled multiscale biointerfaces. <i>Nature Biomedical Engineering</i> , 2018, 2, 508-521.	22.5	183
9	Growth Mechanism of Transition Metal Dichalcogenide Monolayers: The Role of Self-Seeding Fullerene Nuclei. <i>ACS Nano</i> , 2016, 10, 5440-5445.	14.6	163
10	Stabilization of Copper Catalysts for Liquid-Phase Reactions by Atomic Layer Deposition. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13808-13812.	13.8	162
11	SnTe/AgBiTe ₂ as an efficient thermoelectric material with low thermal conductivity. <i>Journal of Materials Chemistry A</i> , 2014, 2, 20849-20854.	10.3	142
12	Au@MoS ₂ Core-Shell Heterostructures with Strong Light-Matter Interactions. <i>Nano Letters</i> , 2016, 16, 7696-7702.	9.1	139
13	Computational Prediction of High Thermoelectric Performance in Hole Doped Layered GeSe. <i>Chemistry of Materials</i> , 2016, 28, 3218-3226.	6.7	129
14	Ultra-Flexible, Invisibly-Thin Film Transistors Enabled by Amorphous Metal Oxide/Polymer Channel Layer Blends. <i>Advanced Materials</i> , 2015, 27, 2390-2399.	21.0	116
15	Systematic Study of Oxygen Vacancy Tunable Transport Properties of Few-Layer MoO ₃ Enabled by Vapor-Based Synthesis. <i>Advanced Functional Materials</i> , 2017, 27, 1605380.	14.9	91
16	Influence of film composition in quaternary Heusler alloy Co ₂ (Mn,Fe)Si thin films on tunnelling magnetoresistance of Co ₂ (Mn,Fe)Si/MgO-based magnetic tunnel junctions. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 164001.	2.8	88
17	Ce _{0.8} Sm _{0.2} O _{2-δ} /La _{0.8} Sr _{0.2} MnO _{3-δ} Dual-Phase Composite Hollow Fiber Membrane for Oxygen Separation. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 5789-5793.	3.7	62
18	Pore Structure and Bifunctional Catalyst Activity of Overlayers Applied by Atomic Layer Deposition on Copper Nanoparticles. <i>ACS Catalysis</i> , 2014, 4, 1554-1557.	11.2	58

#	ARTICLE	IF	CITATIONS
19	Effect of nonstoichiometry on the half-metallic character of Co ₂ MnSi investigated through saturation magnetization and tunneling magnetoresistance ratio. <i>Physical Review B</i> , 2014, 89, .	3.2	42
20	Epitaxial growth and magnetic properties of Fe ₃ O ₄ films on TiN buffered Si(001), Si(110), and Si(111) substrates. <i>Applied Physics Letters</i> , 2010, 97, 092508.	3.3	34
21	Laser writing of nitrogen-doped silicon carbide for biological modulation. <i>Science Advances</i> , 2020, 6, .	10.3	33
22	Bifunctional Materials for the Catalytic Conversion of Cellulose into Soluble Renewable Biorefinery Feedstocks. <i>Topics in Catalysis</i> , 2012, 55, 148-161.	2.8	29
23	Epitaxial growth and thermal stability of Fe ₄ N film on TiN buffered Si(001) substrate. <i>Journal of Applied Physics</i> , 2011, 109, 07E126.	2.5	15
24	Two-Dimensional Mineral [Pb ₂ BiS ₃][AuTe ₂]: High-Mobility Charge Carriers in Single-Atom-Thick Layers. <i>Journal of the American Chemical Society</i> , 2015, 137, 2311-2317.	13.7	14
25	Structured silicon for revealing transient and integrated signal transductions in microbial systems. <i>Science Advances</i> , 2020, 6, eaay2760.	10.3	14
26	Heavy-Metal-Free, Low-Damping, and Non-Interface Perpendicular Fe ₁₆ N ₂ Thin Film and Magnetoresistance Device. <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900089.	2.4	12
27	Synthesis of Fe ₃ O ₄ thin films by selective oxidation with controlled oxygen chemical potential. <i>Scripta Materialia</i> , 2011, 65, 739-742.	5.2	8
28	Raman analysis of phonon modes in a short period AlN/GaN superlattice. <i>Superlattices and Microstructures</i> , 2018, 115, 116-122.	3.1	6
29	Reactive sputtering of (Co,Fe) nitride thin films on TiN-buffered Si. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 487-492.	2.3	5
30	Nanostructure-Assisted Phonon Scattering in Lead-Free Thermoelectric Materials: A TEM Investigation of the SnTe System. <i>Microscopy and Microanalysis</i> , 2014, 20, 438-439.	0.4	5
31	Two-dimensional bismuth-rich nanosheets through the evaporative thinning of Se-doped Bi ₂ Te ₃ . <i>Journal of Crystal Growth</i> , 2016, 436, 138-144.	1.5	5
32	Inverse TMR in a nominally symmetric CoFe/AlO _x /CoFe junction induced by interfacial Fe ₃ O ₄ investigated by STEM-EELS. <i>Journal of Magnetism and Magnetic Materials</i> , 2012, 324, 1837-1844.	2.3	2
33	From complex magnetism ordering to simple ferromagnetism in two-dimensional LaCrS_3 by hole doping. <i>Physical Review B</i> , 2016, 94, .	3.2	2
34	Stabilization of Copper Catalysts for Liquid-Phase Reactions by Atomic Layer Deposition (Angew. Chem. 51/2013). <i>Angewandte Chemie</i> , 2013, 125, 14068-14068.	2.0	1
35	High-Quality, Smooth Fe ₃ O ₄ Thin Films on Si By Controlled Oxidation of Fe in CO/CO ₂ . <i>Materials Research Society Symposia Proceedings</i> , 2012, 1430, 13.	0.1	0