Huajun liu

List of Publications by Year
in descending order

31 papers	1,703 citations	361413 20 h-index	454955 30 g-index
31 all docs	31 docs citations	31 times ranked	2773 citing authors

#	Article	IF	Citations
1	In-situ real-time imaging of subsurface damage evolution in carbon fiber composites with shearography. Composites Communications, 2022, 32, 101170.	6.3	3
2	Improving carrier mobility in two-dimensional semiconductors with rippled materials. Nature Electronics, 2022, 5, 489-496.	26.0	52
3	Origin of giant electric-field-induced strain in faulted alkali niobate films. Nature Communications, 2022, 13, .	12.8	11
4	Alkali-deficiency driven charged out-of-phase boundaries for giant electromechanical response. Nature Communications, 2021, 12, 2841.	12.8	19
5	Giant piezoelectricity in oxide thin films with nanopillar structure. Science, 2020, 369, 292-297.	12.6	86
6	Quantitative Observation of Threshold Defect Behavior in Memristive Devices with <i>Operando</i> X-ray Microscopy. ACS Nano, 2018, 12, 4938-4945.	14.6	12
7	Dynamic Field Modulation of the Octahedral Framework in Metal Oxide Heterostructures. Advanced Materials, 2018, 30, e1804775.	21.0	13
8	Directed acoustic shearography for crack detection around fastener holes in aluminum plates. NDT and E International, 2018, 100, 124-131.	3.7	12
9	Acoustic shearography for crack detection in metallic plates. Smart Materials and Structures, 2018, 27, 085018.	3.5	18
10	Phase coexistence and electric-field control of toroidal order in oxide superlattices. Nature Materials, 2017, 16, 1003-1009.	27.5	159
11	Nickel and Lanthanum Hydroxide Nanocomposites with Much Improved Electrochemical Performance for Supercapacitors. Journal of the American Ceramic Society, 2017, 100, 247-256.	3.8	11
12	Notice of Removal: Shearography using wave-defect interactions for crack detection in metallic structures. , 2017, , .		0
13	Strongly correlated perovskite fuel cells. Nature, 2016, 534, 231-234.	27.8	387
14	Method and analysis for determining yielding of titanium alloy with nonlinear Rayleigh surface waves. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 669, 41-47.	5.6	20
15	3D TiO2@Ni(OH)2 Core-shell Arrays with Tunable Nanostructure for Hybrid Supercapacitor Application. Scientific Reports, 2015, 5, 13940.	3.3	68
16	Nanoscale phase mixture in uniaxial strained BiFeO3 (110) thin films. Journal of Applied Physics, 2015, 118, .	2.5	6
17	Stable Ferroelectric Perovskite Structure with Giant Axial Ratio and Polarization in Epitaxial BiFe_{0.6}Ga_{0.4}O₃ Thin Films. ACS Applied Materials & Interfaces, 2015, 7, 2648-2653.	8.0	38
18	Activation of sucrose-derived carbon spheres for high-performance supercapacitor electrodes. RSC Advances, 2015, 5, 9307-9313.	3.6	73

#	Article	IF	Citations
19	3D Nanostructure of Carbon Nanotubes Decorated Co 3 O 4 Nanowire Arrays for High Performance Supercapacitor Electrode. Electrochimica Acta, 2015, 163, 9-15.	5.2	77
20	Doping cobalt hydroxide nanowires for better supercapacitor performance. Acta Materialia, 2015, 84, 20-28.	7.9	30
21	Effects of nitrogen doping on supercapacitor performance of a mesoporous carbon electrode produced by a hydrothermal soft-templating process. Journal of Materials Chemistry A, 2014, 2, 11753.	10.3	127
22	Intercalating graphene with clusters of Fe₃O₄ nanocrystals for electrochemical supercapacitors. Materials Research Express, 2014, 1, 025015.	1.6	59
23	Surfactant-modified chemically reduced graphene oxide for electrochemical supercapacitors. RSC Advances, 2014, 4, 26398-26406.	3.6	69
24	Unit-cell determination of epitaxial thin films based on reciprocal-space vectors by high-resolution X-ray diffractometry. Journal of Applied Crystallography, 2014, 47, 402-413.	4.5	8
25	Tuning the porous texture and specific surface area of nanoporous carbons for supercapacitor electrodes by adjusting the hydrothermal synthesis temperature. Journal of Materials Chemistry A, 2013, 1, 12962.	10.3	42
26	Uniaxial strain-induced ferroelectric phase with a giant axial ratio in a (110) BiFeO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>thin film. Physical Review B, 2013, 87, .	3.2	27
27	Origin of a Tetragonal BiFeO₃ Phase with a Giant <i>c</i>/<i>a</i> Ratio on SrTiO₃ Substrates. Advanced Functional Materials, 2012, 22, 937-942.	14.9	61
28	Growth rate induced monoclinic to tetragonal phase transition in epitaxial BiFeO3 (001) thin films. Applied Physics Letters, 2011, 98, 102902.	3.3	40
29	Twinning rotation and ferroelectric behavior of epitaxial BiFeO3 (001) thin film. Applied Physics Letters, 2010, 96, .	3.3	37
30	Thickness-dependent twinning evolution and ferroelectric behavior of epitaxial<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BiFeO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:n thin films. Physical Review B, 2010, 82, .	3.2	32
31	Ferromagnetic, ferroelectric, and fatigue behavior of (111)-oriented BiFeO3/(Bi1/2Na1/2)TiO3 lead-free bilayered thin films. Applied Physics Letters, 2009, 94, .	3.3	106