

# Shao-Dong Cheng

## List of Publications by Year in descending order

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31  
papers

1,437  
citations

623734

14  
h-index

501196

28  
g-index

31  
all docs

31  
docs citations

31  
times ranked

2139  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of post-annealing on microstructural and magnetic properties of CoFe <sub>2</sub> O <sub>4</sub> :MgO nanocomposite films on MgAl <sub>2</sub> O <sub>4</sub> (0 0 1) substrates. <i>Materials Letters</i> , 2022, 308, 131255.	2.6	1
2	High-performance Strain of Lead-free Relaxor Ferroelectric Piezoceramics by the Morphotropic Phase Boundary Modification. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	16
3	Ultrafast spin current generated from an antiferromagnet. <i>Nature Physics</i> , 2021, 17, 388-394.	16.7	81
4	Revealing self-aligned $\hat{1}^3$ -SnTe ultrathin nanosheets in thermoelectric $\hat{1}^2$ -SnTe. <i>Nanoscale</i> , 2021, 13, 15205-15209.	5.6	3
5	Growth and characterization of pyrochlore-type (Ca,Ti) <sub>2</sub> (Nb,Ti) <sub>2</sub> O <sub>7</sub> thin films. <i>Thin Solid Films</i> , 2021, 721, 138546.	1.8	0
6	Growth behavior and interface of (In $\hat{A}$ + $\hat{A}$ Nb) co-doped rutile TiO <sub>2</sub> films prepared on m-plane sapphire substrates. <i>Thin Solid Films</i> , 2021, 732, 138762.	1.8	1
7	Effect of growth temperature on the microstructural properties of 0.95Na <sub>0.5</sub> Bi <sub>0.5</sub> TiO <sub>3</sub> $\hat{A}$ 0.05BaTiO <sub>3</sub> films prepared on MgO ( $\hat{A}$ 0 $\hat{A}$ 1) substrates. <i>Materials Letters</i> , 2020, 259, 126847.	2.6	0
8	Effect of deformation and post-annealing on microstructure and mechanical properties of long-period stacking ordered phase in Mg <sub>88</sub> Ni <sub>5</sub> Y <sub>7</sub> alloy. <i>Materialia</i> , 2020, 9, 100551.	2.7	2
9	All-inorganic Nanocomposites: Bioinspired Hierarchically Structured All-inorganic Nanocomposites with Significantly Improved Capacitive Performance (Adv. Funct. Mater. 23/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070149.	14.9	1
10	Bioinspired Hierarchically Structured All-inorganic Nanocomposites with Significantly Improved Capacitive Performance. <i>Advanced Functional Materials</i> , 2020, 30, 2000191.	14.9	88
11	Self-assembling behavior and interface structure in vertically aligned nanocomposite (Pr <sub>0.5</sub> Ba <sub>0.5</sub> MnO <sub>3</sub> ) <sub>1-x</sub> (CeO <sub>2</sub> ) <sub>x</sub> films on (001) (La,Sr)(Al,Ta)O <sub>3</sub> substrates. <i>Scientific Reports</i> , 2020, 10, 2348.	3.3	4
12	Twins and polytypic stacking faults in the $\hat{1}^{1/2}$ phase formed in rapidly quenched Mn-Si alloys. <i>Materials Letters</i> , 2020, 271, 127746.	2.6	0
13	Porosity-Induced High Selectivity for CO <sub>2</sub> Electroreduction to CO on Fe-Doped ZIF-Derived Carbon Catalysts. <i>ACS Catalysis</i> , 2019, 9, 11579-11588.	11.2	99
14	Atomic-scale imaging of heterointerface and planar faults in epitaxial (Pr, Sr) <sub>2</sub> CoO <sub>4</sub> films on SrTiO <sub>3</sub> ( $\hat{A}$ 0 $\hat{A}$ 1) substrates. <i>Journal of Crystal Growth</i> , 2019, 511, 93-98.	1.5	4
15	B-site ordering and strain-induced phase transition in double-perovskite La <sub>2</sub> NiMnO <sub>6</sub> films. <i>Scientific Reports</i> , 2018, 8, 2516.	3.3	29
16	Formation of Ruddlesden-Popper Faults and Their Effect on the Magnetic Properties in Pr <sub>0.5</sub> Sr <sub>0.5</sub> CoO <sub>3</sub> Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 1428-1433.	8.0	14
17	Simultaneously achieved temperature-insensitive high energy density and efficiency in domain engineered BaTiO <sub>3</sub> -Bi(Mg <sub>0.5</sub> Zr <sub>0.5</sub> )O <sub>3</sub> lead-free relaxor ferroelectrics. <i>Nano Energy</i> , 2018, 52, 203-210.	16.0	410
18	Structural transition induced enhancement of magnetization and magnetoresistance in epitaxial (Pr <sub>0.5</sub> Ba <sub>0.5</sub> MnO <sub>3</sub> ) <sub>1-x</sub> (CeO <sub>2</sub> ) <sub>x</sub> vertically aligned thin films. <i>CrystEngComm</i> , 2018, 20, 5017-5024.	2.6	4

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19	Understanding Phonon Scattering by Nanoprecipitates in Potassium-Doped Lead Chalcogenides. ACS Applied Materials & Interfaces, 2017, 9, 3686-3693.	8.0	6
20	Giant strain with low hysteresis in A-site-deficient (Bi <sub>0.5</sub> Na <sub>0.5</sub> )TiO <sub>3</sub> -based lead-free piezoceramics. Acta Materialia, 2017, 128, 337-344.	7.9	222
21	Microstructure and electrical conductivity of (Y, Sr)CoO <sub>3-<math>\delta</math></sub> thin films tuned by the film-growth temperature. Journal of Alloys and Compounds, 2017, 714, 181-185.	5.5	4
22	Microstructure and Electrical Conductivity of (Y, Sr)CoO <sub>3-<math>\delta</math></sub> Thin Films Tuned by the Film-Growth Temperature. Microscopy and Microanalysis, 2017, 23, 1656-1657.	0.4	1
23	Enhanced magnetic properties in epitaxial self-assembled vertically aligned nanocomposite (Pr <sub>0.5</sub> Ba <sub>0.5</sub> MnO <sub>3</sub> ) <sub>0.5</sub> :(CeO <sub>2</sub> ) <sub>0.5</sub> thin films. Journal of Materials Chemistry C, 2016, 4, 10955-10961.		8
24	A NiCo <sub>2</sub> O <sub>4</sub> nanosheet-mesoporous carbon composite electrode for enhanced reversible lithium storage. Carbon, 2016, 99, 633-641.	10.3	77
25	Atomistic understanding of the origin of high oxygen reduction electrocatalytic activity of cuboctahedral Pt <sub>3</sub> Co@Pt core-shell nanoparticles. Catalysis Science and Technology, 2016, 6, 1393-1401.	4.1	17
26	Quantification of the boron speciation in alkali borosilicate glasses by electron energy loss spectroscopy. Scientific Reports, 2015, 5, 17526.	3.3	17
27	Quantification of the Boron Speciation and Cu Oxidation States in Alkali Borosilicate Glasses by Electron Energy Loss Spectroscopy. Microscopy and Microanalysis, 2015, 21, 791-792.	0.4	2
28	Ultrathin NiO nanosheets anchored on a highly ordered nanostructured carbon as an enhanced anode material for lithium ion batteries. Nano Energy, 2015, 16, 152-162.	16.0	152
29	Bamboo-like amorphous carbon nanotubes clad in ultrathin nickel oxide nanosheets for lithium-ion battery electrodes with long cycle life. Carbon, 2015, 84, 491-499.	10.3	145
30	Investigation of the oxidation states of Cu additive in colored borosilicate glasses by electron energy loss spectroscopy. Journal of Applied Physics, 2014, 116, .	2.5	25
31	Self-assembled ZnO/Ag nanocomposite thin films with enhanced multiple-phonon resonant Raman scattering. Materials Letters, 2014, 115, 172-175.	2.6	4