

# Yanhui Chu

## List of Publications by Year in descending order

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72  
papers

3,829  
citations

109321

35  
h-index

123424

61  
g-index

72  
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72  
docs citations

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times ranked

2947  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanocrystalline high-entropy hexaboride ceramics enable remarkable performance as thermionic emission cathodes. <i>Fundamental Research</i> , 2023, 3, 979-987.	3.3	5
2	Nanocrystalline high-entropy carbide ceramics with improved mechanical properties. <i>Journal of the American Ceramic Society</i> , 2022, 105, 606-613.	3.8	46
3	High-entropy metal carbide nanowires. <i>Cell Reports Physical Science</i> , 2022, 3, 100839.	5.6	14
4	Synthesis of the superfine high-entropy zirconate nanopowders by polymerized complex method. <i>Journal of Advanced Ceramics</i> , 2022, 11, 136-144.	17.4	19
5	Surface energies in high-entropy carbides with variable carbon stoichiometry. <i>Journal of the American Ceramic Society</i> , 2022, 105, 5835-5842.	3.8	6
6	Combustion synthesis of high-entropy carbide nanoparticles for tetracycline degradation via persulfate activation. <i>Science China Materials</i> , 2022, 65, 3144-3149.	6.3	10
7	Rapid fabrication of hierarchical porous SiC/C hybrid structure: toward high-performance capacitive energy storage with ultrahigh cyclability. <i>Journal of Materials Science</i> , 2021, 56, 16068-16081.	3.7	8
8	High-entropy alumino-silicides: a novel class of high-entropy ceramics. <i>Science China Materials</i> , 2020, 63, 300-306.	6.3	45
9	High-temperature oxidation behavior of $(\text{Hf}_{0.2}\text{Zr}_{0.2}\text{Ta}_{0.2}\text{Nb}_{0.2}\text{Ti}_{0.2})\text{C}$ high-entropy ceramics in air. <i>Journal of the American Ceramic Society</i> , 2020, 103, 500-507.	3.8	104
10	Low-temperature molten salt synthesis of high-entropy carbide nanopowders. <i>Journal of the American Ceramic Society</i> , 2020, 103, 2244-2251.	3.8	50
11	Synthesis of the ternary metal carbide solid-solution ceramics by polymer-derived ceramic route. <i>Journal of the American Ceramic Society</i> , 2020, 103, 2970-2974.	3.8	17
12	Formation criterion for binary metal diboride solid solutions established through combinatorial methods. <i>Journal of the American Ceramic Society</i> , 2020, 103, 3338-3348.	3.8	16
13	High-pressure sintering of ultrafine-grained high-entropy diboride ceramics. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6655-6658.	3.8	42
14	Synthesis of high-entropy diboride nanopowders via molten salt-mediated magnesiothermic reduction. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4738-4741.	3.8	27
15	Molten salt synthesis, formation mechanism, and oxidation behavior of nanocrystalline $\text{HfB}_2$ powders. <i>Journal of Advanced Ceramics</i> , 2020, 9, 35-44.	17.4	56
16	Fabrication and characterization of polymer-derived high-entropy carbide ceramic powders. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4063-4068.	3.8	49
17	Thermophysical and mechanical properties of novel high-entropy metal nitride carbides. <i>Journal of the American Ceramic Society</i> , 2020, 103, 6475-6489.	3.8	66
18	Chrysanthemum-like high-entropy diboride nanoflowers: A new class of high-entropy nanomaterials. <i>Journal of Advanced Ceramics</i> , 2020, 9, 339-348.	17.4	46

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19	Synthesis and characterization of $(\text{Zr}_{1/3}\text{Nb}_{1/3}\text{Ti}_{1/3})\text{C}$ metal carbide solid solution ceramic. <i>Journal of the American Ceramic Society</i> , 2019, 102, 919-923.	3.8	38
20	Synthesis and characterization of $(\text{Pr}, \text{Ce})\text{ZrSiO}_4$ ceramic pigments: The properties of the pigments and the effect of Ce. <i>Journal of the American Ceramic Society</i> , 2019, 102, 2619-2628.	3.8	14
21	Synthesis of high-purity high-entropy metal diboride powders by boro/carbothermal reduction. <i>Journal of the American Ceramic Society</i> , 2019, 102, 7071-7076.	3.8	55
22	Scalable ultrasmall three-dimensional nanowire transistor probes for intracellular recording. <i>Nature Nanotechnology</i> , 2019, 14, 783-790.	31.5	129
23	Magnetic double-network hydrogels for tissue hyperthermia and drug release. <i>Journal of Materials Chemistry B</i> , 2019, 7, 1311-1321.	5.8	67
24	Preparation and properties of dense $\text{ZrB}_2$ composite reinforced by elongated $\text{SiC}$ and $\text{Al}_3\text{BC}$ grains. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 2190-2196.	2.1	5
25	One-step synthesis of coral-like high-entropy metal carbide powders. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6372-6378.	3.8	48
26	Oxidation behavior of $(\text{Hf}_{0.2}\text{Zr}_{0.2}\text{Ta}_{0.2}\text{Nb}_{0.2}\text{Ti}_{0.2})\text{C}$ high-entropy ceramics at 1073-1473 K in air. <i>Corrosion Science</i> , 2019, 153, 327-332.	6.6	143
27	Synthesis of superfine high-entropy metal diboride powders. <i>Scripta Materialia</i> , 2019, 167, 110-114.	5.2	120
28	First-principles study, fabrication and characterization of $(\text{Zr}_{0.25}\text{Nb}_{0.25}\text{Ti}_{0.25}\text{V}_{0.25})\text{C}$ high-entropy ceramics. <i>Acta Materialia</i> , 2019, 170, 15-23.	7.9	294
29	Synthesis and characterization of the ternary metal diboride solid solution nanopowders. <i>Journal of the American Ceramic Society</i> , 2019, 102, 4956-4962.	3.8	24
30	Bioinspired neuron-like electronics. <i>Nature Materials</i> , 2019, 18, 510-517.	27.5	277
31	First-principles study, fabrication, and characterization of $(\text{Hf}_{0.2}\text{Zr}_{0.2}\text{Ta}_{0.2}\text{Nb}_{0.2}\text{Ti}_{0.2})\text{C}$ high-entropy ceramic. <i>Journal of the American Ceramic Society</i> , 2019, 102, 4344-4352.	3.8	217
32	Molten salt synthesis, characterization, and formation mechanism of superfine $(\text{Hf}_x\text{Zr}_{1-x})\text{B}_2$ solid solution powders. <i>Journal of the American Ceramic Society</i> , 2019, 102, 3763-3770.	3.8	23
33	Morphological control and kinetics in three dimensions for hierarchical nanostructures growth by screw dislocations. <i>Acta Materialia</i> , 2019, 162, 284-291.	7.9	28
34	High-Temperature Plateau-Rayleigh Growth of Beaded $\text{SiC}/\text{SiO}_2$ Nanochain Heterostructures. <i>Crystal Growth and Design</i> , 2018, 18, 2941-2947.	3.0	26
35	The influence of micronization on the properties of $\text{Pr-ZrSiO}_4$ pigment. <i>Dyes and Pigments</i> , 2018, 153, 74-83.	3.7	31
36	In situ synthesis of homogeneously dispersed $\text{SiC}$ nanowires in reaction sintered silicon-based ceramic powders. <i>Ceramics International</i> , 2018, 44, 6681-6685.	4.8	28

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37	Spontaneous growth of hexagonal ZrB <sub>2</sub> nanoplates driven by a screw dislocation mechanism. CrystEngComm, 2018, 20, 7637-7641.	2.6	9
38	Synthesis of Ti <sub>0.2</sub> Zr <sub>0.8</sub> B <sub>2</sub> solid solution nanopowders by molten salt assisted borothermal reduction. Journal of the American Ceramic Society, 2018, 101, 4899-4904.	3.8	9
39	Low-temperature synthesis of ultrafine TiB <sub>2</sub> nanopowders by molten salt assisted borothermal reduction. Journal of the American Ceramic Society, 2018, 101, 5299-5303.	3.8	20
40	SiC nanowire-induced fabrication of fine-grained and highly-density SiC coating by pressure-less reactive sintering. Journal of Alloys and Compounds, 2018, 755, 206-210.	5.5	21
41	Screw dislocation assisted spontaneous growth of single-crystalline $\alpha$ -Al <sub>2</sub> O <sub>3</sub> microrods. Composites Communications, 2018, 10, 93-96.	6.3	3
42	Optomechanical Transistor with Phonons and Photons. IEEE Sensors Journal, 2017, , 1-1.	4.7	1
43	Influence of microstructure properties and layer thickness on strength and permeance of ceramic membranes. International Journal of Applied Ceramic Technology, 2017, 14, 562-573.	2.1	2
44	Solid Conical Cap-closing Hollow Tube Growth by Axial Screw Dislocations. Scientific Reports, 2017, 7, 2803.	3.3	3
45	Engineer <i>in Situ</i> Growth of $\alpha$ -Al <sub>2</sub> O <sub>3</sub> Whiskers by Axial Screw Dislocations. Crystal Growth and Design, 2017, 17, 1999-2005.	3.0	12
46	Controlling signal transport in a carbon nanotube opto-transistor. Scientific Reports, 2016, 6, 37193.	3.3	1
47	Shape-Controlled Deterministic Assembly of Nanowires. Nano Letters, 2016, 16, 2644-2650.	9.1	57
48	General synthesis of complex nanotubes by gradient electrospinning and controlled pyrolysis. Nature Communications, 2015, 6, 7402.	12.8	370
49	Oxidation protection of carbon/carbon composites by a novel SiC nanoribbon-reinforced SiC-Si ceramic coating. Corrosion Science, 2015, 92, 272-279.	6.6	51
50	Ultra-High-Temperature Ceramic HfB <sub>2</sub> -SiC Coating for Oxidation Protection of SiC-Coated Carbon/Carbon Composites. International Journal of Applied Ceramic Technology, 2015, 12, 560-567.	2.1	51
51	Oxidation protection and behavior of in-situ zirconium diboride-silicon carbide coating for carbon/carbon composites. Journal of Alloys and Compounds, 2015, 645, 164-170.	5.5	56
52	SiC Nanowires Toughed HfC Ablative Coating for C/C Composites. Journal of Materials Science and Technology, 2015, 31, 70-76.	10.7	35
53	Ferrocene-Catalyzed Growth of Single-Crystalline 6H-SiC Nanoribbons. Journal of the American Ceramic Society, 2014, 97, 3363-3366.	3.8	9
54	Adsorbed O <sub>2</sub> on the Graphite-Induced Growth of Ultra-Long Single-Crystalline 6H-SiC Nanowires. Journal of the American Ceramic Society, 2014, 97, 2379-2382.	3.8	10

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55	Oxidation protection of C/C composites by ultra long SiC nanowire-reinforced SiCâ€“Si coating. Corrosion Science, 2014, 84, 204-208.	6.6	49
56	Periodically twinned 6H-SiC nanowires with fluctuating stems. Ceramics International, 2014, 40, 4455-4460.	4.8	24
57	Preparation of oxidation protective ZrB <sub>2</sub> â€“SiC coating by in-situ reaction method on SiC-coated carbon/carbon composites. Surface and Coatings Technology, 2014, 247, 61-67.	4.8	67
58	ZrB <sub>2</sub> â€“SiC gradient oxidation protective coating for carbon/carbon composites. Ceramics International, 2014, 40, 7171-7176.	4.8	89
59	Bamboo-shaped SiC nanowire-toughened SiC coating for oxidation protection of C/C composites. Corrosion Science, 2013, 70, 11-16.	6.6	57
60	Oxidation resistant graded multiphase coating for carbon/carbon composites. Surface and Coatings Technology, 2013, 232, 821-826.	4.8	31
61	TaB <sub>2</sub> â€“SiCâ€“Si multiphase oxidation protective coating for SiC-coated carbon/carbon composites. Journal of the European Ceramic Society, 2013, 33, 2953-2959.	5.7	73
62	Oxidation protection and behavior of C/C composites with an in situ SiC nanowireâ€“SiCâ€“Si/SiCâ€“Si coating. Corrosion Science, 2013, 70, 285-289.	6.6	57
63	Large-scale synthesis, growth mechanism, and photoluminescence of 3C-SiC nanobelts. Materials Letters, 2013, 109, 275-278.	2.6	18
64	Wear behavior of SiC nanowire-reinforced SiC coating for C/C composites at elevated temperatures. Journal of the European Ceramic Society, 2013, 33, 2961-2969.	5.7	35
65	Oxidation protection of C/C composites with in situ bamboo-shaped SiC nanowire-toughened Siâ€“Cr coating. Corrosion Science, 2013, 74, 419-423.	6.6	36
66	Improvement of $\text{SiC}/\text{Si}$ â€“ $\text{Si}/\text{MAS}$ Interface in the Joints via <i>In Situ</i> Synthesizing $\text{SiC}$ Nanowires. Journal of the American Ceramic Society, 2013, 96, 3926-3932.	3.8	11
67	Toughening by $\text{SiC}$ Nanowires in a Dense $\text{SiC}$ â€“ $\text{Si}$ Ceramic Coating for Oxidation Protection of $\text{C}/\text{C}$ Composites. Journal of the American Ceramic Society, 2012, 95, 3691-3697.	3.8	63
68	Oxidation protection of SiC-coated C/C composites by SiC nanowire-toughened CrSi <sub>2</sub> â€“SiCâ€“Si coating. Corrosion Science, 2012, 55, 394-400.	6.6	57
69	Oxidation protection of C/C composites with a multilayer coating of SiC and Si + SiC + SiC nanowires. Carbon, 2012, 50, 1280-1288.	10.3	116
70	Influence of SiC nanowires on the properties of SiC coating for C/C composites between room temperature and 1500Â°C. Corrosion Science, 2011, 53, 3048-3053.	6.6	72
71	Thermal fatigue behavior of C/C composites modified by SiCâ€“MoSi <sub>2</sub> â€“CrSi <sub>2</sub> coating. Journal of Alloys and Compounds, 2011, 509, 8111-8115.	5.5	30
72	Microstructure and growth mechanism of SiC nanowires with periodically fluctuating hexagonal prisms by CVD. Journal of Alloys and Compounds, 2010, 508, L36-L39.	5.5	31