

Xiang-Hu Gao

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Engineering a Versatile Spectrally Selective Absorber for Moderate and Low Temperature Application with Gradient High-Entropy Nitride Nanofilms. <i>Solar Rrl</i> , 2022, 6, 2100752.	3.1	10
2	Reinforcement optical performance and thermal tolerance in a TiB ₂ -HfB ₂ -based double-layer spectral selective absorber via a pre-annealing strategy. <i>Materials Today Physics</i> , 2022, 24, 100690.	2.9	8
3	Entropy-Assisted High-Entropy Oxide with a Spinel Structure toward High-Temperature Infrared Radiation Materials. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 1950-1960.	4.0	21
4	Ultrabroad wavelength absorption in high-temperature solar selective absorber coatings enabled by high-entropy nanoceramic AlTiZrHfNbN for high-performance solar-thermal conversion. <i>Journal of Materials Chemistry C</i> , 2022, 10, 9266-9277.	2.7	3
5	High-Entropy Alloy Nitride AlMo _{0.5} NbTa _{0.5} TiZrN-Based High-Temperature Solar Absorber Coating: Structure, Optical Properties, and Thermal Stability. <i>ACS Applied Energy Materials</i> , 2022, 5, 9214-9224.	2.5	5
6	Greatly enhanced solar absorption via high entropy ceramic AlCrTaTiZrN based solar selective absorber coatings. <i>Journal of Materiomics</i> , 2021, 7, 460-469.	2.8	20
7	Toward high-temperature thermal tolerance in solar selective absorber coatings: choosing high entropy ceramic HfNbTaTiZrN. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21270-21280.	5.2	24
8	Scalable and highly efficient high temperature solar absorber coatings based on high entropy alloy nitride AlCrTaTiZrN with different antireflection layers. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6413-6422.	5.2	32
9	Scalable and Ultrathin High-Temperature Solar Selective Absorbing Coatings Based on the High-Entropy Nanoceramic AlCrWTaNbTiN with High Photothermal Conversion Efficiency. <i>Solar Rrl</i> , 2021, 5, 2000790.	3.1	23
10	Highly Enhanced Thermal Robustness and Photothermal Conversion Efficiency of Solar-Selective Absorbers Enabled by High-Entropy Alloy Nitride MoTaTiCrN Nanofilms. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 16987-16996.	4.0	26
11	Nanometer-Thick High-Entropy Alloy Nitride Al _{0.4} Hf _{0.6} NbTaTiZrN-Based Solar Selective Absorber Coatings. <i>ACS Applied Nano Materials</i> , 2021, 4, 4504-4512.	2.4	13
12	Toward a Scalable and Cost-Conscious Structure in Spectrally Selective Absorbers: Using High-Entropy Nitride TiVCrAlZrN. <i>ACS Applied Energy Materials</i> , 2021, 4, 8801-8809.	2.5	5
13	A novel multilayer high temperature solar absorber coating based on high-entropy alloy NbMoTaW: Optical properties, thermal stability and corrosion properties. <i>Journal of Materiomics</i> , 2021, 7, 895-903.	2.8	11
14	Enhanced spectral selectivity of HfC based high temperature solar absorbers with the addition of Mo. <i>Thin Solid Films</i> , 2020, 713, 138349.	0.8	6
15	Further investigation of a novel high entropy alloy MoNbHfZrTi based solar absorber coating with double antireflective layers. <i>Solar Energy Materials and Solar Cells</i> , 2020, 217, 110709.	3.0	18
16	Optical design, thermal shock resistance and failure mechanism of a novel multilayer spectrally selective absorber coating based on HfB ₂ and ZrB ₂ . <i>Solar Energy Materials and Solar Cells</i> , 2020, 211, 110533.	3.0	21
17	A novel multilayer high temperature colored solar absorber coating based on high-entropy alloy MoNbHfZrTi: Optimized preparation and chromaticity investigation. <i>Solar Energy Materials and Solar Cells</i> , 2020, 209, 110444.	3.0	42
18	Structure, thermal stability and optical simulation of ZrB ₂ based spectrally selective solar absorber coatings. <i>Solar Energy Materials and Solar Cells</i> , 2019, 193, 178-183.	3.0	46

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19	A novel TiCâ€“ZrB ₂ /ZrB ₂ /Al ₂ O ₃ multilayer high temperature solar selective absorbing coating: Microstructure, optical properties and failure mechanism. Solar Energy Materials and Solar Cells, 2019, 203, 110187.	3.0	24
20	Structure, optical simulation and thermal stability of the HfB ₂ -based high-temperature solar selective absorbing coatings. RSC Advances, 2019, 9, 29726-29733.	1.7	20
21	Thermal stability investigation of the SS/MO/Al ₂ O ₃ spectrally selective solar absorber coatings. Surface Engineering, 2019, 35, 565-572.	1.1	5
22	Optical properties and failure analysis of ZrC-ZrOx ceramic based spectrally selective solar absorbers deposited at a high substrate temperature. Solar Energy Materials and Solar Cells, 2018, 176, 93-99.	3.0	25
23	Enhanced optical properties of TiN-based spectrally selective solar absorbers deposited at a high substrate temperature. Solar Energy Materials and Solar Cells, 2017, 163, 91-97.	3.0	47
24	Microstructure, chromaticity and thermal stability of SS/TiC-WC/Al ₂ O ₃ spectrally selective solar absorbers. Solar Energy Materials and Solar Cells, 2017, 164, 63-69.	3.0	25
25	Optical simulation, corrosion behavior and long term thermal stability of TiC-based spectrally selective solar absorbers. Solar Energy Materials and Solar Cells, 2017, 167, 150-156.	3.0	35
26	Microstructure and Optical Properties of SS/Mo/Al ₂ O ₃ Spectrally Selective Solar Absorber Coating. Journal of Materials Engineering and Performance, 2017, 26, 161-167.	1.2	18
27	Enhanced thermal stability and spectral selectivity of SS/TiC-Y/Al ₂ O ₃ spectrally selective solar absorber by thermal annealing. Solar Energy, 2016, 140, 199-205.	2.9	17
28	Structure, optical properties and thermal stability of TiC-based tandem spectrally selective solar absorber coating. Solar Energy Materials and Solar Cells, 2016, 157, 543-549.	3.0	56
29	Structure, optical properties and thermal stability of Al ₂ O ₃ -WC nanocomposite ceramic spectrally selective solar absorbers. Optical Materials, 2016, 58, 219-225.	1.7	30
30	Structure, optical properties and thermal stability of SS/TiCâ€“ZrC/Al ₂ O ₃ spectrally selective solar absorber. RSC Advances, 2016, 6, 63867-63873.	1.7	19
31	Solâ€“Gel Combustionâ€“Derived CoCuMnO _x Spinel as Pigment for Spectrally Selective Paints. Journal of the American Ceramic Society, 2011, 94, 827-832.	1.9	33