

Song Zhang

List of Publications by Year in descending order

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papers

749
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516561

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docs citations

68
times ranked

680
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#	ARTICLE	IF	CITATIONS
1	Fabrication of porous SiC nanostructured coatings on C/C composite by laser chemical vapor deposition for improving the thermal shock resistance. <i>Ceramics International</i> , 2022, , .	2.3	5
2	Practical Adoption of Cloud Computing in Power Systems—Drivers, Challenges, Guidance, and Real-World Use Cases. <i>IEEE Transactions on Smart Grid</i> , 2022, 13, 2390-2411.	6.2	8
3	One-step chemical vapor deposition fabrication of Ni@NiO@graphite nanoparticles for the oxygen evolution reaction of water splitting. <i>RSC Advances</i> , 2022, 12, 10496-10503.	1.7	10
4	Epitaxial Growth of SiC Films on 4H-SiC Substrate by High-Frequency Induction-Heated Halide Chemical Vapor Deposition. <i>Coatings</i> , 2022, 12, 329.	1.2	4
5	Effect of TZP nanoparticles synthesized by RCVD on mechanical properties of ZTA composites sintered by SPS. <i>Journal of the European Ceramic Society</i> , 2022, 42, 3550-3558.	2.8	3
6	Phase-Selective Synthesis of Mo-Ta-C Ternary Nanosheets by Precisely Tailoring Mo/Ta Atom Ratio on Liquid Copper. <i>Nanomaterials</i> , 2022, 12, 1446.	1.9	1
7	Synthesis of transfer-free graphene films on dielectric substrates with controllable thickness via an in-situ co-deposition method for electrochromic devices. <i>Ceramics International</i> , 2022, , .	2.3	0
8	High-throughput growth of HfO ₂ films using temperature-gradient laser chemical vapor deposition. <i>RSC Advances</i> , 2022, 12, 15555-15563.	1.7	1
9	Growth of self-aligned nonlayered TaC nanosheets on liquid copper by a solid phase diffusion strategy. <i>Materials Today Nano</i> , 2022, , 100237.	2.3	0
10	Complete genome sequences and recombination analysis of three divergent Satsuma dwarf virus isolates. <i>Tropical Plant Pathology</i> , 2021, 46, 26-30.	0.8	6
11	Laser CVD growth of graphene/SiC/Si nano-matrix heterostructure with improved electrochemical capacitance and cycle stability. <i>Carbon</i> , 2021, 175, 377-386.	5.4	17
12	Viromics unveils extraordinary genetic diversity of the family Closteroviridae in wild citrus. <i>PLoS Pathogens</i> , 2021, 17, e1009751.	2.1	17
13	A hierarchically multifunctional integrated catalyst with intimate and synergistic active sites for one-pot tandem catalysis. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 3463-3472.	3.0	18
14	Influence of oxygen partial pressure on SmBa ₂ Cu ₃ O _{7-δ} film deposited by laser chemical vapor deposition. <i>Journal of Asian Ceramic Societies</i> , 2021, 9, 197-207.	1.0	1
15	Growth of self-aligned single-crystal vanadium carbide nanosheets with a controllable thickness on a unique staked metal substrate. <i>Applied Surface Science</i> , 2020, 499, 143998.	3.1	8
16	Microstructure and Oxidation Resistance of V Thin Films Deposited by Magnetron Sputtering at Room Temperature. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2020, 35, 879-884.	0.4	3
17	Mechanical properties of high-crystalline diamond films grown via laser MPCVD. <i>Diamond and Related Materials</i> , 2020, 109, 108094.	1.8	6
18	Microstructure and texture of polycrystalline 3C-SiC thick films characterized via EBSD. <i>Ceramics International</i> , 2020, 46, 27000-27009.	2.3	7

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19	A high-throughput synthesis of large-sized single-crystal hexagonal boron nitride on a Cu–Ni gradient enclosure. <i>RSC Advances</i> , 2020, 10, 16088-16093.	1.7	5
20	Complete genome sequences of two novel genotypes of Citrus tristeza virus infecting Poncirus trifoliata in China. <i>Journal of Plant Pathology</i> , 2020, 102, 903-907.	0.6	9
21	Epitaxial growth and electrical performance of graphene/3C–SiC films by laser CVD. <i>Journal of Alloys and Compounds</i> , 2020, 826, 154198.	2.8	13
22	In Situ Doping of Nitrogen in 110-Oriented Bulk 3C-SiC by Halide Laser Chemical Vapour Deposition. <i>Materials</i> , 2020, 13, 410.	1.3	3
23	Growth mechanism of porous 3C–SiC films prepared via laser chemical vapor deposition. <i>Ceramics International</i> , 2020, 46, 16518-16523.	2.3	6
24	Thickness-dependent microstructural properties of heteroepitaxial (00.1) CuFeO ₂ thin films on (00.1) sapphire by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2020, 127, 065301.	1.1	13
25	Nanoforest of 3C–SiC/graphene by laser chemical vapor deposition with high electrochemical performance. <i>Journal of Power Sources</i> , 2019, 444, 227308.	4.0	13
26	Fabrication of an ultra-thick oriented 3C–SiC coating on the inner surface of a graphite tube by high-frequency induction-heated halide chemical vapor deposition. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1004-1011.	1.1	3
27	Morphology controlling of 111-3C–SiC films by HMDS flow rate in LCVD. <i>RSC Advances</i> , 2019, 9, 2426-2430.	1.7	8
28	Epitaxial growth of 3C-SiC (111) on Si via laser CVD carbonization. <i>Journal of Asian Ceramic Societies</i> , 2019, 7, 312-320.	1.0	4
29	Growth of umbrella-like millimeter-scale single-crystalline graphene on liquid copper. <i>Carbon</i> , 2019, 150, 356-362.	5.4	9
30	Synthesis of Al ₂ O ₃ coatings on Ti(C, N)-based cermets by microwave plasma CVD using Al(acac) ₃ . <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 2265-2272.	1.1	1
31	Fine-grained 3C–SiC thick films prepared via hybrid laser chemical vapor deposition. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5668-5678.	1.9	15
32	Structural investigation of Al ₂ O ₃ coatings by $PECVD$ with a high deposition rate. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 1356-1363.	1.1	5
33	Microstructure and Oxidation Behavior of Metal V Films Deposited by Magnetron Sputtering. <i>Materials</i> , 2019, 12, 425.	1.3	4
34	Effect of hydrogen flow on microtwins in 3C–SiC epitaxial films by laser chemical vapor deposition. <i>Thin Solid Films</i> , 2019, 678, 8-15.	0.8	5
35	Structural Controlling of Highly-Oriented Polycrystal 3C-SiC Bulks via Halide CVD. <i>Materials</i> , 2019, 12, 390.	1.3	11
36	Practical Design and Implementation of Cloud Computing for Power System Planning Studies. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 2301-2311.	6.2	26

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37	Synchrophasor-Based Emergency Generation Control for Area Balancing. IEEE Transactions on Smart Grid, 2019, 10, 5831-5840.	6.2	8
38	Heteroepitaxial growth of thick 3C-SiC (110) films by Laser CVD. Journal of the American Ceramic Society, 2019, 102, 4480-4491.	1.9	6
39	Effect of microstructure on HER catalytic properties of MoS ₂ vertically standing nanosheets. Journal of Alloys and Compounds, 2018, 747, 100-108.	2.8	30
40	Mechanical, electrical and thermal properties of ZrC-ZrB ₂ -SiC ternary eutectic composites prepared by arc melting. Journal of the European Ceramic Society, 2018, 38, 3759-3766.	2.8	23
41	Epitaxial growth of 3C-SiC on Si(111) and (001) by laser CVD. Journal of the American Ceramic Society, 2018, 101, 3850-3856.	1.9	4
42	Catalytic Decomposition of Nitric Oxide by LaCoO ₃ Nano-particles Prepared by Rotary CVD. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 368-374.	0.4	3
43	Transparent highly oriented 3C-SiC bulks by halide laser CVD. Journal of the European Ceramic Society, 2018, 38, 3057-3063.	2.8	20
44	Fast synthesis of high-quality large-area graphene by laser CVD. Applied Surface Science, 2018, 445, 204-210.	3.1	22
45	High-speed heteroepitaxial growth of 3C-SiC (111) thick films on Si (110) by laser chemical vapor deposition. Journal of the American Ceramic Society, 2018, 101, 1048-1057.	1.9	16
46	Fast preparation of (111)-oriented β -SiC films without carbon formation by laser chemical vapor deposition from hexamethyldisilane without H ₂ . Journal of the American Ceramic Society, 2018, 101, 1471-1478.	1.9	11
47	Morphological Evolution of Vertically Standing Molybdenum Disulfide Nanosheets by Chemical Vapor Deposition. Materials, 2018, 11, 631.	1.3	10
48	Structural study of epitaxial NdBa ₂ Cu ₃ O _{7-x} films by laser chemical vapor deposition. RSC Advances, 2018, 8, 19811-19817.	1.7	0
49	Elimination of Voids at Interface of β -SiC Films and Si Substrate by Laser CVD. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 356-362.	0.4	0
50	Morphology and mechanical behavior of diamond films fabricated by IH-MPCVD. RSC Advances, 2018, 8, 16061-16068.	1.7	16
51	Electrically conducting graphene/SiC(111) composite coatings by laser chemical vapor deposition. Carbon, 2018, 139, 76-84.	5.4	17
52	Structural study of β -SiC(001) films on Si(001) by laser chemical vapor deposition. Journal of the American Ceramic Society, 2017, 100, 1634-1641.	1.9	12
53	Elimination of double position domains (DPDs) in epitaxial β -3C-SiC on Si(111) by laser CVD. Applied Surface Science, 2017, 426, 662-666.	3.1	10
54	Synthesis of large size uniform single-crystalline trilayer graphene on premelting copper. Carbon, 2017, 122, 352-360.	5.4	5

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55	Effect of CH ₄ /SiCl ₄ ratio on the composition and microstructure of ~110°-oriented β -SiC bulks by halide CVD. Journal of the European Ceramic Society, 2017, 37, 1217-1223.	2.8	18
56	Preparation of highly oriented β -SiC bulks by halide laser chemical vapor deposition. Journal of the European Ceramic Society, 2017, 37, 509-515.	2.8	23
57	Thickness dependence of structure and superconductivity of the SmBa ₂ Cu ₃ O ₇ film by laser CVD. RSC Advances, 2017, 7, 56166-56172.	1.7	4
58	Ultra-fast Fabrication of ~110°-oriented β -SiC Wafers by Halide CVD. Journal of the American Ceramic Society, 2016, 99, 84-88.	1.9	25
59	Effect of microstructure on mechanical, electrical and thermal properties of B ₄ C-HfB ₂ composites prepared by arc melting. Journal of the European Ceramic Society, 2016, 36, 3929-3937.	2.8	26
60	Ultra-fast epitaxial growth of β -SiC films on β -(4H)-SiC using hexamethyldisilane (HMDS) at low temperature. Ceramics International, 2016, 42, 4632-4635.	2.3	7
61	Microstructure and mechanical properties of B ₄ C-HfB ₂ -SiC ternary eutectic composites prepared by arc melting. Journal of the European Ceramic Society, 2016, 36, 959-966.	2.8	23
62	Growth Mechanism and Defects of ~111°-oriented β -SiC Films Deposited by Laser Chemical Vapor Deposition. Journal of the American Ceramic Society, 2015, 98, 236-241.	1.9	35
63	Study on the Reaction Mechanism of Potassium Titanate Fibers. Integrated Ferroelectrics, 2014, 153, 156-163.	0.3	6
64	High-speed Preparation of ~111°- and ~110°-oriented β -SiC Films by Laser Chemical Vapor Deposition. Journal of the American Ceramic Society, 2014, 97, 952-958.	1.9	41
65	Comparison of CVD-deposited Ni and dry-blended Ni powder as sintering aids for TiN powder. Journal of the European Ceramic Society, 2014, 34, 1955-1961.	2.8	13
66	High-speed Epitaxial Growth of β -SiC Film on Si(111) Single Crystal by Laser Chemical Vapor Deposition. Journal of the American Ceramic Society, 2012, 95, 2782-2784.	1.9	38
67	High-Speed Deposition of SiC Thick Film by Halide Precursor. Key Engineering Materials, 0, 616, 37-42.	0.4	6
68	Effects of C/Si Ratio on the Structure of β -SiC Film by Halide CVD. Key Engineering Materials, 0, 616, 227-231.	0.4	3