Song Zhang

List of Publications by Year
in descending order

68	749	516561 16	642610 23
papers	citations	h-index	g-index

68	68	68	680
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	High‐Speed Epitaxial Growth of β‐<scp><scp>SiC</scp></scp> Film on <scp><scp>Si</scp></scp>(111) Single Crystal by Laser Chemical Vapor Deposition. Journal of the American Ceramic Society, 2012, 95, 2782-2784.	1.9	38
3	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
4	Effect of microstructure on HER catalytic properties of MoS2 vertically standing nanosheets. Journal of Alloys and Compounds, 2018, 747, 100-108.	2.8	30
5	Effect of microstructure on mechanical, electrical and thermal properties of B4C-HfB2 composites prepared by arc melting. Journal of the European Ceramic Society, 2016, 36, 3929-3937.	2.8	26
6	Practical Design and Implementation of Cloud Computing for Power System Planning Studies. IEEE Transactions on Smart Grid, 2019, 10, 2301-2311.	6.2	26
7	Ultra‐Fast Fabrication of <110>‐Oriented β‐SiC Wafers by Halide <scp>CVD</scp>. Journal of the American Ceramic Society, 2016, 99, 84-88.	1.9	25
8	Microstructure and mechanical properties of B4C–HfB2–SiC ternary eutectic composites prepared by arc melting. Journal of the European Ceramic Society, 2016, 36, 959-966.	2.8	23
9	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
10	Mechanical, electrical and thermal properties of ZrC-ZrB2-SiC ternary eutectic composites prepared by arc melting. Journal of the European Ceramic Society, 2018, 38, 3759-3766.	2.8	23
11	Fast synthesis of high-quality large-area graphene by laser CVD. Applied Surface Science, 2018, 445, 204-210.	3.1	22
12	Transparent highly oriented 3C-SiC bulks by halide laser CVD. Journal of the European Ceramic Society, 2018, 38, 3057-3063.	2.8	20
13	Effect of CH4/SiCl4 ratio on the composition and microstructure of ã€˜110ã€‰-oriented β-SiC bulks by halide CVD. Journal of the European Ceramic Society, 2017, 37, 1217-1223.	2.8	18
14	A hierarchically multifunctional integrated catalyst with intimate and synergistic active sites for one-pot tandem catalysis. Inorganic Chemistry Frontiers, 2021, 8, 3463-3472.	3.0	18
15	Electrically conducting graphene/SiC(111) composite coatings by laser chemical vapor deposition. Carbon, 2018, 139, 76-84.	5.4	17
16	Laser CVD growth of graphene/SiC/Si nano-matrix heterostructure with improved electrochemical capacitance and cycle stability. Carbon, 2021, 175, 377-386.	5.4	17
17	Viromics unveils extraordinary genetic diversity of the family Closteroviridae in wild citrus. PLoS Pathogens, 2021, 17, e1009751.	2.1	17
18	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

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19	Morphology and mechanical behavior of diamond films fabricated by IH-MPCVD. RSC Advances, 2018, 8, 16061-16068.	1.7	16
20	Fineâ€grained 3Câ€SiC thick films prepared via hybrid laser chemical vapor deposition. Journal of the American Ceramic Society, 2019, 102, 5668-5678.	1.9	15
21	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
22	Nanoforest of 3Câ€“SiC/graphene by laser chemical vapor deposition with high electrochemical performance. Journal of Power Sources, 2019, 444, 227308.	4.0	13
23	Epitaxial growth and electrical performance of graphene/3Câ€“SiC films by laser CVD. Journal of Alloys and Compounds, 2020, 826, 154198.	2.8	13
24	Thickness-dependent microstructural properties of heteroepitaxial (00.1) CuFeO2 thin films on (00.1) sapphire by pulsed laser deposition. Journal of Applied Physics, 2020, 127, 065301.	1.1	13
25	Structural study of Î²â€SiC(001) films on Si(001) by laser chemical vapor deposition. Journal of the American Ceramic Society, 2017, 100, 1634-1641.	1.9	12
26	Fast preparation of (111)â€oriented Î²â€SiC films without carbon formation by laser chemical vapor deposition from hexamethyldisilane without H₂. Journal of the American Ceramic Society, 2018, 101, 1471-1478.	1.9	11
27	Structural Controlling of Highly-Oriented Polycrystal 3C-SiC Bulks via Halide CVD. Materials, 2019, 12, 390.	1.3	11
28	Elimination of double position domains (DPDs) in epitaxial ã€ˆ111ã€‰-3C-SiC on Si(111) by laser CVD. Applied Surface Science, 2017, 426, 662-666.	3.1	10
29	Morphological Evolution of Vertically Standing Molybdenum Disulfide Nanosheets by Chemical Vapor Deposition. Materials, 2018, 11, 631.	1.3	10
30	One-step chemical vapor deposition fabrication of Ni@NiO@graphite nanoparticles for the oxygen evolution reaction of water splitting. RSC Advances, 2022, 12, 10496-10503.	1.7	10
31	Growth of umbrella-like millimeter-scale single-crystalline graphene on liquid copper. Carbon, 2019, 150, 356-362.	5.4	9
32	Complete genome sequences of two novel genotypes of Citrus tristeza virusÂinfecting Poncirus trifoliata in China. Journal of Plant Pathology, 2020, 102, 903-907.	0.6	9
33	Morphology controlling of ã€ˆ111ã€‰-3Câ€“SiC films by HMDS flow rate in LCVD. RSC Advances, 2019, 9, 2426-2430.	1.7	8
34	Synchrophasor-Based Emergency Generation Control for Area Balancing. IEEE Transactions on Smart Grid, 2019, 10, 5831-5840.	6.2	8
35	Growth of self-aligned single-crystal vanadium carbide nanosheets with a controllable thickness on a unique staked metal substrate. Applied Surface Science, 2020, 499, 143998.	3.1	8
36	Practical Adoption of Cloud Computing in Power Systemsâ€”Drivers, Challenges, Guidance, and Real-World Use Cases. IEEE Transactions on Smart Grid, 2022, 13, 2390-2411.	6.2	8

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37	Ultra-fast epitaxial growth of Î²-SiC films on Î±(4H)-SiC using hexamethyldisilane (HMDS) at low temperature. Ceramics International, 2016, 42, 4632-4635.	2.3	7
38	Microstructure and texture of polycrystalline 3Câ€“SiC thick films characterized via EBSD. Ceramics International, 2020, 46, 27000-27009.	2.3	7
39	Study on the Reaction Mechanism of Potassium Titanate Fibers. Integrated Ferroelectrics, 2014, 153, 156-163.	0.3	6
40	High-Speed Deposition of SiC Thick Film by Halide Precursor. Key Engineering Materials, 0, 616, 37-42.	0.4	6
41	Heteroepitaxial growth of thick 3Câ€SiC (110) films by Laser CVD. Journal of the American Ceramic Society, 2019, 102, 4480-4491.	1.9	6
42	Mechanical properties of high-crystalline diamond films grown via laser MPCVD. Diamond and Related Materials, 2020, 109, 108094.	1.8	6
43	Growth mechanism of porous 3Câ€“SiC films prepared via laser chemical vapor deposition. Ceramics International, 2020, 46, 16518-16523.	2.3	6
44	Complete genome sequences and recombination analysis of three divergent Satsuma dwarf virus isolates. Tropical Plant Pathology, 2021, 46, 26-30.	0.8	6
45	Synthesis of large size uniform single-crystalline trilayer graphene on premelting copper. Carbon, 2017, 122, 352-360.	5.4	5
46	Structural investigation of Al₂O₃ coatings by <scp>PECVD</scp> with a high deposition rate. International Journal of Applied Ceramic Technology, 2019, 16, 1356-1363.	1.1	5
47	Effect of hydrogen flow on microtwins in 3Câ€“SiC epitaxial films by laser chemical vapor deposition. Thin Solid Films, 2019, 678, 8-15.	0.8	5
48	A high-throughput synthesis of large-sized single-crystal hexagonal boron nitride on a Cuâ€“Ni gradient enclosure. RSC Advances, 2020, 10, 16088-16093.	1.7	5
49	Fabrication of porous SiC nanostructured coatings on C/C composite by laser chemical vapor deposition for improving the thermal shock resistance. Ceramics International, 2022, , .	2.3	5
50	Thickness dependence of structure and superconductivity of the SmBa₂Cu₃O₇ film by laser CVD. RSC Advances, 2017, 7, 56166-56172.	1.7	4
51	Epitaxial growth of 3Câ€“SiC on Si(111) and (001) by laser CVD. Journal of the American Ceramic Society, 2018, 101, 3850-3856.	1.9	4
52	Epitaxial growth of 3C-SiC (111) on Si via laser CVD carbonization. Journal of Asian Ceramic Societies, 2019, 7, 312-320.	1.0	4
53	Microstructure and Oxidation Behavior of Metal V Films Deposited by Magnetron Sputtering. Materials, 2019, 12, 425.	1.3	4
54	Epitaxial Growth of SiC Films on 4H-SiC Substrate by High-Frequency Induction-Heated Halide Chemical Vapor Deposition. Coatings, 2022, 12, 329.	1.2	4

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55	Effects of C/Si Ratio on the Structure of Î²-SiC Film by Halide CVD. Key Engineering Materials, 0, 616, 227-231.	0.4	3
56	Catalytic Decomposition of Nitric Oxide by LaCoO3 Nano-particles Prepared by Rotary CVD. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 368-374.	0.4	3
57	Fabrication of an ultraâ€thickâ€oriented 3Câ€SiC coating on the inner surface of a graphite tube by highâ€frequency inductionâ€heated halide chemical vapor deposition. International Journal of Applied Ceramic Technology, 2019, 16, 1004-1011.	1.1	3
58	Microstructure and Oxidation Resistance of V Thin Films Deposited by Magnetron Sputtering at Room Temperature. Journal Wuhan University of Technology, Materials Science Edition, 2020, 35, 879-884.	0.4	3
59	In Situ Doping of Nitrogen in <110>-Oriented Bulk 3C-SiC by Halide Laser Chemical Vapour Deposition. Materials, 2020, 13, 410.	1.3	3
60	Effect of TZP nanoparticles synthesized by RCVD on mechanical properties of ZTA composites sintered by SPS. Journal of the European Ceramic Society, 2022, 42, 3550-3558.	2.8	3
61	Synthesis of Al 2 O 3 coatings on Ti(C, N)â€based cermets by microwave plasma CVD using Al(acac) 3. International Journal of Applied Ceramic Technology, 2019, 16, 2265-2272.	1.1	1
62	Influence of oxygen partial pressure on SmBa2Cu3O7-Î´ film deposited by laser chemical vapor deposition. Journal of Asian Ceramic Societies, 2021, 9, 197-207.	1.0	1
63	Phase-Selective Synthesis of Moâ€“Taâ€“C Ternary Nanosheets by Precisely Tailoring Mo/Ta Atom Ratio on Liquid Copper. Nanomaterials, 2022, 12, 1446.	1.9	1
64	High-throughput growth of HfO₂ films using temperature-gradient laser chemical vapor deposition. RSC Advances, 2022, 12, 15555-15563.	1.7	1
65	Structural study of epitaxial NdBa2Cu3O7â^'x films by laser chemical vapor deposition. RSC Advances, 2018, 8, 19811-19817.	1.7	0
66	Elimination of Voids at Interface of Î²-SiC Films and Si Substrate by Laser CVD. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 356-362.	0.4	0
67	Synthesis of transfer-free graphene films on dielectric substrates with controllable thickness via an in-situ co-deposition method for electrochromic devices. Ceramics International, 2022, , .	2.3	0
68	Growth of self-aligned nonlayered TaC nanosheets on liquid copper by a solid phase diffusion strategy. Materials Today Nano, 2022, , 100237.	2.3	0