

Fengzai Tang

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

992
citations

393982

19
h-index

476904

29
g-index

50
all docs

50
docs citations

50
times ranked

1549
citing authors

#	ARTICLE	IF	CITATIONS
1	Observations of grain boundary impurities in nanocrystalline Al and their influence on microstructural stability and mechanical behaviour. <i>Acta Materialia</i> , 2012, 60, 1038-1047.	3.8	122
2	Electronic Structure and Band Alignment at the NiO and SrTiO ₃ Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 26549-26555.	4.0	65
3	Optimization of pulsed laser atom probe (PLAP) for the analysis of nanocomposite TiSiN films. <i>Ultramicroscopy</i> , 2010, 110, 836-843.	0.8	60
4	Atom probe crystallography: Characterization of grain boundary orientation relationships in nanocrystalline aluminium. <i>Ultramicroscopy</i> , 2011, 111, 493-499.	0.8	51
5	Indium clustering in <i>c</i> -plane InGaN quantum wells as evidenced by atom probe tomography. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	46
6	Over 255 mW single-frequency fiber laser with high slope efficiency and power stability based on an ultrashort Yb-doped crystal-derived silica fiber. <i>Photonics Research</i> , 2021, 9, 649.	3.4	36
7	Thin-film nanocomposites of diamond-like carbon and titanium oxide; Osteoblast adhesion and surface properties. <i>Diamond and Related Materials</i> , 2010, 19, 329-335.	1.8	30
8	Influence of plasticiser type and nanoclay on the properties of chitosan-based materials. <i>European Polymer Journal</i> , 2021, 144, 110225.	2.6	28
9	Nanoscale characterization of silica soots and aluminium solution doping in optical fibre fabrication. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 3799-3807.	1.5	27
10	Microstructural investigation of TiSiN hard coatings. <i>Scripta Materialia</i> , 2010, 63, 192-195.	2.6	27
11	Effect of Fe Intermetallics on Microstructure and Properties of Al-7Si Alloys. <i>Jom</i> , 2019, 71, 4362-4369.	0.9	27
12	Ultrafast, Polarized, Single-Photon Emission from m-Plane InGaN Quantum Dots on GaN Nanowires. <i>Nano Letters</i> , 2016, 16, 7779-7785.	4.5	26
13	Subsurface nanocracking in monocrystalline Si (001) induced by nanoscratching. <i>Engineering Fracture Mechanics</i> , 2014, 124-125, 262-271.	2.0	25
14	Practical Issues for Atom Probe Tomography Analysis of III-Nitride Semiconductor Materials. <i>Microscopy and Microanalysis</i> , 2015, 21, 544-556.	0.2	25
15	Thermomechanical-induced polyelectrolyte complexation between chitosan and carboxymethyl cellulose enabling unexpected hydrolytic stability. <i>Composites Science and Technology</i> , 2020, 189, 108031.	3.8	25
16	The atomic structure of polar and non-polar InGaN quantum wells and the green gap problem. <i>Ultramicroscopy</i> , 2017, 176, 93-98.	0.8	24
17	Secondary magnetite in ancient zircon precludes analysis of a Hadean geodynamo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 407-412.	3.3	24
18	Structure and properties of thermomechanically processed chitosan/carboxymethyl cellulose/graphene oxide polyelectrolyte complexed bionanocomposites. <i>International Journal of Biological Macromolecules</i> , 2020, 158, 420-429.	3.6	24

#	ARTICLE	IF	CITATIONS
19	The microstructure of non-polar a-plane (112 $\bar{0}$) InGa \bar{N} quantum wells. Journal of Applied Physics, 2016, 119, .	1.1	22
20	Glycerol plasticisation of chitosan/carboxymethyl cellulose composites: Role of interactions in determining structure and properties. International Journal of Biological Macromolecules, 2020, 163, 683-693.	3.6	19
21	Reevaluating the evidence for a Hadean-Eoarchean dynamo. Science Advances, 2020, 6, eaav9634.	4.7	18
22	Surface integrity of PCD composites generated by dynamic friction polishing: Effect of processing conditions. Diamond and Related Materials, 2012, 26, 25-31.	1.8	17
23	Optical studies of non-polar a-plane (112 $\bar{0}$) InGa \bar{N} /Ga \bar{N} multi-quantum wells grown on freestanding bulk Ga \bar{N} . Physica Status Solidi (B): Basic Research, 2015, 252, 965-970.	0.7	14
24	Ionic Liquid (1-Ethyl-3-methylimidazolium Acetate) Plasticization of Chitosan-Based Bionanocomposites. ACS Omega, 2020, 5, 19070-19081.	1.6	14
25	Analysis of polished polycrystalline diamond using dual beam focused ion beam microscopy. Philosophical Magazine, 2012, 92, 1680-1690.	0.7	13
26	Multiple solution-doping in optical fibre fabrication I – Aluminium doping. Journal of Non-Crystalline Solids, 2008, 354, 927-937.	1.5	12
27	Thin film composites of nanocrystalline ZrO $_2$ and diamond-like carbon: Synthesis, structural properties and bone cell proliferation. Acta Biomaterialia, 2010, 6, 4154-4160.	4.1	12
28	Exceeding 50% slope efficiency DBR fiber laser based on a Yb-doped crystal-derived silica fiber with high gain per unit length. Optics Express, 2020, 28, 23771.	1.7	12
29	Multiple solution-doping in optical fibre fabrication II – Rare-earth and aluminium co-doping. Journal of Non-Crystalline Solids, 2008, 354, 1582-1590.	1.5	11
30	Unexpected Plasticization Effects on the Structure and Properties of Polyelectrolyte Complexed Chitosan/Alginate Materials. ACS Applied Polymer Materials, 2020, 2, 2957-2966.	2.0	11
31	Effect of Surface Oxides on the Melting and Solidification of 316L Stainless Steel Powder for Additive Manufacturing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 4518-4532.	1.1	11
32	Microscale Inhomogeneities in Aluminum Solution-Doping of Silica-Based Optical Fibers. Journal of the American Ceramic Society, 2007, 90, 23-28.	1.9	10
33	Validity of Vegard's rule for Al $_{1-x}$ In $_x$ N (0.08 \leq x \leq 0.28) thin films grown on Ga \bar{N} templates. Physics D: Applied Physics, 2017, 50, 205107.	1.3	10
34	Nanoscope insights into the effect of silicon on core-shell InGa \bar{N} /Ga \bar{N} nanorods: Luminescence, composition, and structure. Journal of Applied Physics, 2018, 123, 045103.	1.1	10
35	Structure and properties of thermomechanically processed silk peptide and nanoclay filled chitosan. Nanocomposites, 2020, 6, 125-136.	2.2	10
36	Spectroscopy of Pb/Bi co-doped silica optical fibers fabricated via atom layer deposition with modified chemical vapour deposition. Journal of Luminescence, 2021, 231, 117768.	1.5	10

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37	Local carrier recombination and associated dynamics in <i>m</i> -plane InGaN/GaN quantum wells probed by picosecond cathodoluminescence. Applied Physics Letters, 2016, 109, .	1.5	9
38	Graphene oxide enhanced ionic liquid plasticisation of chitosan/alginate bionanocomposites. Carbohydrate Polymers, 2021, 253, 117231.	5.1	9
39	Theoretical and experimental analysis of the photoluminescence and photoluminescence excitation spectroscopy spectra of <i>m</i> -plane InGaN/GaN quantum wells. Applied Physics Letters, 2016, 109, .	1.5	7
40	Low-noise-figure and high-purity 10 vortex modes amplifier based on configurable pump modes. Optics Express, 2022, 30, 8248.	1.7	6
41	Microstructural dependency of optical properties of <i>m</i> -plane InGaN multiple quantum wells grown on 2Å° misoriented bulk GaN substrates. Applied Physics Letters, 2015, 107, .	1.5	5
42	Structural and optical properties of (112̄...2) InGaN quantum wells compared to (0001) and (112̄...0). Semiconductor Science and Technology, 2016, 31, 085007.	1.0	5
43	A study of the optical and polarisation properties of InGaN/GaN multiple quantum wells grown on a-plane and m-plane GaN substrates. Science and Technology of Advanced Materials, 2016, 17, 736-743.	2.8	5
44	Insight into the impact of atomic- and nano-scale indium distributions on the optical properties of InGaN/GaN quantum well structures grown on m-plane freestanding GaN substrates. Journal of Applied Physics, 2019, 125, 225704.	1.1	5
45	On the generation of surface depressions in polishing polycrystalline diamond compacts. Journal Physics D: Applied Physics, 2014, 47, 125301.	1.3	4
46	Self-assembled Multilayers of Silica Nanospheres for Defect Reduction in Non- and Semipolar Gallium Nitride Epitaxial Layers. Crystal Growth and Design, 2016, 16, 1010-1016.	1.4	4
47	Broadband high-gain Yb: YAG crystal-derived silica fiber for low noise tunable single-frequency fiber laser. Optics Express, 2022, 30, 18692.	1.7	3
48	Nanoscale structural and chemical analysis of F-implanted enhancement-mode InAlN/GaN heterostructure field effect transistors. Journal of Applied Physics, 2018, 123, 024902.	1.1	2
49	Application of Atom Probe Tomography to Nitride Semiconductors. Microscopy and Microanalysis, 2017, 23, 666-667.	0.2	0
50	Nitride Single Photon Sources. , 2018, , .		0