

Cheng-Tang Pan

List of Publications by Year in descending order

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66
papers

718
citations

687363

13
h-index

677142

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67
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67
docs citations

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times ranked

911
citing authors

#	ARTICLE	IF	CITATIONS
1	Significant piezoelectric and energy harvesting enhancement of poly(vinylidene fluoride)/polypeptide fiber composites prepared through near-field electrospinning. <i>Journal of Materials Chemistry A</i> , 2015, 3, 6835-6843.	10.3	66
2	Vein Pattern Locating Technology for Cannulation: A Review of the Low-Cost Vein Finder Prototypes Utilizing near Infrared (NIR) Light to Improve Peripheral Subcutaneous Vein Selection for Phlebotomy. <i>Sensors</i> , 2019, 19, 3573.	3.8	51
3	Near-field electrospinning enhances the energy harvesting of hollow PVDF piezoelectric fibers. <i>RSC Advances</i> , 2015, 5, 85073-85081.	3.6	42
4	Nanotheranostic Applications for Detection and Targeting Neurodegenerative Diseases. <i>Frontiers in Neuroscience</i> , 2020, 14, 305.	2.8	41
5	New NaSrPO ₄ :Sm ³⁺ phosphor as orange-red emitting material. <i>Bulletin of Materials Science</i> , 2016, 39, 1171-1176.	1.7	27
6	Low-temperature deposited ZnO thin films on the flexible substrate by cathodic vacuum arc technology. <i>Applied Surface Science</i> , 2011, 257, 7119-7122.	6.1	23
7	A water-soluble copper-immobilized covalent organic framework functioning as an "OFF-ON" fluorescent sensor for amino acids. <i>Materials Advances</i> , 0, , .	5.4	23
8	An Innovative Design of a Microtab Deployment Mechanism for Active Aerodynamic Load Control. <i>Energies</i> , 2015, 8, 5885-5897.	3.1	22
9	Energy harvesting with piezoelectric poly(^l -benzyl-L-glutamate) fibers prepared through cylindrical near-field electrospinning. <i>RSC Advances</i> , 2014, 4, 21563.	3.6	20
10	Highly sensitive, flexible and biocompatible temperature sensor utilizing ultra-long Au@AgNW-based polymeric nanocomposites. <i>Nanoscale</i> , 2022, 14, 1742-1754.	5.6	20
11	Structure, optical and electrical properties of ZnO thin films on the flexible substrate by cathodic vacuum arc technology with different arc currents. <i>Ceramics International</i> , 2011, 37, 3077-3082.	4.8	19
12	Competitive Real-Time Near Infrared (NIR) Vein Finder Imaging Device to Improve Peripheral Subcutaneous Vein Selection in Venipuncture for Clinical Laboratory Testing. <i>Micromachines</i> , 2021, 12, 373.	2.9	17
13	Technique of microball lens formation for efficient optical coupling. <i>Applied Optics</i> , 2004, 43, 5939.	2.1	16
14	Polyvinylidene Fluoride-Added Ceramic Powder Composite Near-Field Electrospun Piezoelectric Fiber-Based Low-Frequency Dynamic Sensors. <i>ACS Omega</i> , 2020, 5, 17090-17101.	3.5	16
15	In-Series U-Net Network to 3D Tumor Image Reconstruction for Liver Hepatocellular Carcinoma Recognition. <i>Diagnostics</i> , 2021, 11, 11.	2.6	16
16	Development a multi-loop modulation method on the servo drives for lower limb rehabilitation exoskeleton. <i>Mechatronics</i> , 2020, 68, 102360.	3.3	15
17	Downregulation of the cytochrome P450 4B1 protein confers a poor prognostic factor in patients with urothelial carcinomas of upper urinary tracts and urinary bladder. <i>Apmis</i> , 2019, 127, 170-180.	2.0	14
18	Electromagnetic optical switch for optical network communication. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 239, 610-613.	2.3	12

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19	Piezoelectricity of Well-Aligned Electrospun Fiber Composites. <i>IEEE Sensors Journal</i> , 2013, 13, 4098-4103.	4.7	12
20	Microstructure, luminescence and thermal stability properties of NaSrPO ₄ :Tb ³⁺ phosphors with various doping concentrations prepared using conventional solid-state sintering. <i>Optical Materials</i> , 2013, 35, 2183-2187.	3.6	12
21	Effect of different sintering method on the microstructure and photoluminescent properties of NaSrPO ₄ :Tb ³⁺ phosphors. <i>Powder Technology</i> , 2016, 288, 117-122.	4.2	12
22	The Mechanical Behaviors of Polyethylene/Silver Nanoparticle Composites: an Insight from Molecular Dynamics study. <i>Scientific Reports</i> , 2020, 10, 7600.	3.3	12
23	Flexible Piezoresistive Tactile Sensor Based on Polymeric Nanocomposites with Grid-Type Microstructure. <i>Micromachines</i> , 2021, 12, 452.	2.9	12
24	Properties of low-temperature deposited ZnO thin films prepared by cathodic vacuum arc technology on different flexible substrates. <i>Thin Solid Films</i> , 2013, 539, 290-293.	1.8	10
25	Al ₂ O ₃ /SUS304 Brazing via AgCuTi-W Composite as Active Filler. <i>Journal of Materials Engineering and Performance</i> , 2014, 23, 906-911.	2.5	10
26	Size-Dependent Thermal Behaviors of 5-Fold Twinned Silver Nanowires: A Computational Study. <i>Journal of Physical Chemistry C</i> , 2016, 120, 12840-12849.	3.1	10
27	Large-Area Piezoelectric PVDF Fibers Fabricated by Near-Field Electrospinning with Multi-Spinneret Structures. <i>Micromachines</i> , 2017, 8, 97.	2.9	10
28	Design of Customize Interbody Fusion Cages of Ti64ELI with Gradient Porosity by Selective Laser Melting Process. <i>Micromachines</i> , 2021, 12, 307.	2.9	10
29	Evaluation of anti-EGFR-iRGD recombinant protein with GOLD nanoparticles: synergistic effect on antitumor efficiency using optimized deep neural networks. <i>RSC Advances</i> , 2019, 9, 19261-19270.	3.6	9
30	Development of Multi-axis Motor Control Systems for Lower Limb Robotic Exoskeleton. <i>Journal of Medical and Biological Engineering</i> , 2019, 39, 752-763.	1.8	9
31	Effects of Stoichiometry on Structural, Morphological and Nanomechanical Properties of Bi ₂ Se ₃ Thin Films Deposited on InP(111) Substrates by Pulsed Laser Deposition. <i>Coatings</i> , 2020, 10, 958.	2.6	8
32	Assessment of Wheelchair Propulsion Performance in an Immersive Virtual Reality Simulator. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 8016.	2.6	8
33	Development of Flexible Biceps Tremors Sensing Chip of PVDF Fibers with Nano-Silver Particles by Near-Field Electrospinning. <i>Polymers</i> , 2022, 14, 331.	4.5	8
34	Study on Delamination Between Polymer Materials and Metals in IC Packaging Process. <i>Polymers</i> , 2019, 11, 940.	4.5	7
35	Characterization of Piezoelectric Properties of Ag-NPs Doped PVDF Nanocomposite Fibres Membrane Prepared by Near Field Electrospinning. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2022, 25, 720-729.	1.1	6
36	Development of Multi-Axis Crank Linkage Motion System for Synchronized Flight Simulation with VR Immersion. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3596.	2.5	6

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37	Nanoparticles-mediated Brain Imaging and Disease Prognosis by Conventional as well as Modern Modal Imaging Techniques: a Comparison. <i>Current Pharmaceutical Design</i> , 2019, 25, 2637-2649.	1.9	6
38	Energy Harvesters Incorporating Silk from the Taiwan-Native Spider <i>Nephila pilipes</i> . <i>ACS Applied Energy Materials</i> , 2018, , .	5.1	5
39	Energy Harvester and Cell Proliferation from Biocompatible PMLG Nanofibers Prepared Using Near-Field Electrospinning and Electrospray Technology. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 156-164.	0.9	5
40	Inhibition of the formation of autophagosome but not autolysosome augments ABT-751-induced apoptosis in TP53-deficient Hep3B cells. <i>Journal of Cellular Physiology</i> , 2019, 234, 9551-9563.	4.1	5
41	Enhancement of PVDF Sensing Characteristics by Retooling the Near-Field Direct-Write Electrospinning System. <i>Sensors</i> , 2020, 20, 4873.	3.8	5
42	Influence of Post-Annealing on the Structural and Nanomechanical Properties of Co Thin Films. <i>Micromachines</i> , 2020, 11, 180.	2.9	5
43	Nanoindentation evaluation of cathodic vacuum arc deposited ZnO film on PET substrate. <i>Materials Letters</i> , 2016, 175, 60-62.	2.6	4
44	PCL-DOX microdroplets: an evaluation of the enhanced intracellular delivery of doxorubicin in metastatic cancer cells via in silico and in vitro approaches. <i>New Journal of Chemistry</i> , 2019, 43, 12241-12256.	2.8	4
45	ABT-751 Induces Multiple Anticancer Effects in Urinary Bladder Urothelial Carcinoma-Derived Cells: Highlighting the Induction of Cytostasis through the Inhibition of SKP2 at Both Transcriptional and Post-Translational Levels. <i>International Journal of Molecular Sciences</i> , 2021, 22, 945.	4.1	4
46	A 40-nm CMOS Piezoelectric Energy Harvesting IC for Wearable Biomedical Applications. <i>Electronics (Switzerland)</i> , 2021, 10, 649.	3.1	4
47	Fabrication and Analysis of Near-Field Electrospun PVDF Fibers with Sol-Gel Coating for Lithium-Ion Battery Separator. <i>Membranes</i> , 2021, 11, 186.	3.0	4
48	Fibers and Conductive Films Using Silver Nanoparticles and Nanowires by Near-Field Electrospinning Process. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-5.	2.7	3
49	A parametric study on synthesis of Ag nanowires with high aspect ratio. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 12415-12424.	2.2	3
50	Deformation behaviors of Au nanotubes under torsion by molecular dynamics simulations. <i>AIP Advances</i> , 2018, 8, 085204.	1.3	3
51	Numerical Analysis of the Welding Behaviors in Micro-Copper Bumps. <i>Metals</i> , 2021, 11, 460.	2.3	3
52	EMP2 induces cytostasis and apoptosis via the TGF β ² /SMAD/SP1 axis and recruitment of P2RX7 in urinary bladder urothelial carcinoma. <i>Cellular Oncology (Dordrecht)</i> , 2021, 44, 1133-1150.	4.4	3
53	Cancer Biology Aspects of Computational Methods & Applications in Drug Discovery. <i>Current Pharmaceutical Design</i> , 2019, 24, 3758-3766.	1.9	3
54	A New Design of Porosity Gradient Ti-6Al-4V Encapsulated Hydroxyapatite Dual Materials Composite Scaffold for Bone Defects. <i>Micromachines</i> , 2021, 12, 1294.	2.9	3

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55	Active Assistive Design and Multiaxis Self-Tuning Control of a Novel Lower Limb Rehabilitation Exoskeleton. <i>Machines</i> , 2022, 10, 318.	2.2	3
56	Effect of O ₂ /Ar Gas Flow Ratios on Properties of Cathodic Vacuum Arc Deposited ZnO Thin Films on Polyethylene Terephthalate Substrate. <i>Journal of Nanomaterials</i> , 2016, 2016, 1-6.	2.7	2
57	Energy harvester made of Taiwan local <i>Nephila pilipes</i> spider silk. , 2017, , .		2
58	Sustained-Release and pH-Adjusted Alginate Microspheres-Encapsulated Doxorubicin Inhibit the Viabilities in Hepatocellular Carcinoma-Derived Cells. <i>Pharmaceutics</i> , 2021, 13, 1417.	4.5	2
59	Fabrication of Biodegradable Poly(<i>caprolactone</i>) Spherical-Microcarriers for Arterial Embolization. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 5162-5174.	0.9	2
60	Application of a Tactile Sensor for the Gait Phase Classification for an Exoskeleton. <i>IEEE Sensors Journal</i> , 2022, 22, 11940-11953.	4.7	2
61	Improvement of Model Predictive Current Control Sensing Strategy for a Developed Small Flux-Switching Permanent Magnet Motor. <i>Sensors</i> , 2020, 20, 3177.	3.8	1
62	Hexagonal microlens array fabricated by proximity printing via UV lithography. , 0, , .		0
63	Analysis of interconnection reliability of dielectric layer for wafer level chip scale package. , 2015, , .		0
64	A Misalignment Optical Guiding Module for Power Generation Enhancement of Fixed-Type Photovoltaic Systems. <i>Micromachines</i> , 2019, 10, 687.	2.9	0
65	The development of polycaprolactone (PCL) microcarriers with an emulsification module by ultrasonic spraying. <i>Microsystem Technologies</i> , 2019, 25, 2029-2033.	2.0	0
66	Recognition Rate Advancement and Data Error Improvement of Pathology Cutting with H-DenseUNet for Hepatocellular Carcinoma Image. <i>Diagnostics</i> , 2021, 11, 1599.	2.6	0