

Cheng-Tang Pan

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	Active Assistive Design and Multiaxis Self-Tuning Control of a Novel Lower Limb Rehabilitation Exoskeleton. <i>Machines</i> , 2022, 10, 318.	2.2	3
6	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
7	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
8	A 40-nm CMOS Piezoelectric Energy Harvesting IC for Wearable Biomedical Applications. <i>Electronics (Switzerland)</i> , 2021, 10, 649.	3.1	4
9	Numerical Analysis of the Welding Behaviors in Micro-Copper Bumps. <i>Metals</i> , 2021, 11, 460.	2.3	3
10	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
11	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
12	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
13	Flexible Piezoresistive Tactile Sensor Based on Polymeric Nanocomposites with Grid-Type Microstructure. <i>Micromachines</i> , 2021, 12, 452.	2.9	12
14	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
15	EMP2 induces cytotostasis 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
16	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
17	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
18	In-Series U-Net Network to 3D Tumor Image Reconstruction for Liver Hepatocellular Carcinoma Recognition. <i>Diagnostics</i> , 2021, 11, 11.	2.6	16

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19	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
20	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
21	Enhancement of PVDF Sensing Characteristics by Retooling the Near-Field Direct-Write Electrospinning System. <i>Sensors</i> , 2020, 20, 4873.	3.8	5
22	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
23	Nanotherapeutic Applications for Detection and Targeting Neurodegenerative Diseases. <i>Frontiers in Neuroscience</i> , 2020, 14, 305.	2.8	41
24	The Mechanical Behaviors of Polyethylene/Silver Nanoparticle Composites: an Insight from Molecular Dynamics study. <i>Scientific Reports</i> , 2020, 10, 7600.	3.3	12
25	Development a multi-loop modulation method on the servo drives for lower limb rehabilitation exoskeleton. <i>Mechatronics</i> , 2020, 68, 102360.	3.3	15
26	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
27	Influence of Post-Annealing on the Structural and Nanomechanical Properties of Co Thin Films. <i>Micromachines</i> , 2020, 11, 180.	2.9	5
28	Fabrication of Biodegradable Poly(caprolactone) Spherical-Microcarriers for Arterial Embolization. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 5162-5174.	0.9	2
29	Study on Delamination Between Polymer Materials and Metals in IC Packaging Process. <i>Polymers</i> , 2019, 11, 940.	4.5	7
30	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
31	PCL-DOX microdroplets: an evaluation of the enhanced intracellular delivery of doxorubicin in metastatic cancer cells <i>in silico</i> and <i>in vitro</i> approaches. <i>New Journal of Chemistry</i> , 2019, 43, 12241-12256.	2.8	4
32	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
33	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
34	A Misalignment Optical Guiding Module for Power Generation Enhancement of Fixed-Type Photovoltaic Systems. <i>Micromachines</i> , 2019, 10, 687.	2.9	0
35	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
36	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

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37	The development of polycaprolactone (PCL) microcarriers with an emulsification module by ultrasonic spraying. <i>Microsystem Technologies</i> , 2019, 25, 2029-2033.	2.0	0
38	Cancer Biology Aspects of Computational Methods & Applications in Drug Discovery. <i>Current Pharmaceutical Design</i> , 2019, 24, 3758-3766.	1.9	3
39	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
40	Deformation behaviors of Au nanotubes under torsion by molecular dynamics simulations. <i>AIP Advances</i> , 2018, 8, 085204.	1.3	3
41	Energy Harvesters Incorporating Silk from the Taiwan-Native Spider <i>Nephila pilipes</i> . <i>ACS Applied Energy Materials</i> , 2018, , .	5.1	5
42	Energy Harvester and Cell Proliferation from Biocompatible PMLG Nanofibers Prepared Using Near-Field Electrospinning and Electro Spray Technology. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 156-164.	0.9	5
43	Energy harvester made of Taiwan local <i>Nephila pilipes</i> spider silk. , 2017, , .		2
44	Large-Area Piezoelectric PVDF Fibers Fabricated by Near-Field Electrospinning with Multi-Spinneret Structures. <i>Micromachines</i> , 2017, 8, 97.	2.9	10
45	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
46	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
47	New NaSrPO ₄ :Sm ³⁺ phosphor as orange-red emitting material. <i>Bulletin of Materials Science</i> , 2016, 39, 1171-1176.	1.7	27
48	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
49	Nanoindentation evaluation of cathodic vacuum arc deposited ZnO film on PET substrate. <i>Materials Letters</i> , 2016, 175, 60-62.	2.6	4
50	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
51	Analysis of interconnection reliability of dielectric layer for wafer level chip scale package. , 2015, , .		0
52	An Innovative Design of a Microtab Deployment Mechanism for Active Aerodynamic Load Control. <i>Energies</i> , 2015, 8, 5885-5897.	3.1	22
53	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
54	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

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55	Near-field electrospinning enhances the energy harvesting of hollow PVDF piezoelectric fibers. RSC Advances, 2015, 5, 85073-85081.	3.6	42
56	Al ₂ O ₃ /SUS304 Brazing via AgCuTi-W Composite as Active Filler. Journal of Materials Engineering and Performance, 2014, 23, 906-911.	2.5	10
57	Energy harvesting with piezoelectric poly(^l -benzyl-L-glutamate) fibers prepared through cylindrical near-field electrospinning. RSC Advances, 2014, 4, 21563.	3.6	20
58	Piezoelectricity of Well-Aligned Electrospun Fiber Composites. IEEE Sensors Journal, 2013, 13, 4098-4103.	4.7	12
59	Properties of low-temperature deposited ZnO thin films prepared by cathodic vacuum arc technology on different flexible substrates. Thin Solid Films, 2013, 539, 290-293.	1.8	10
60	Microstructure, luminescence and thermal stability properties of NaSrPO ₄ :Tb ³⁺ phosphors with various doping concentrations prepared using conventional solid-state sintering. Optical Materials, 2013, 35, 2183-2187.	3.6	12
61	Structure, optical and electrical properties of ZnO thin films on the flexible substrate by cathodic vacuum arc technology with different arc currents. Ceramics International, 2011, 37, 3077-3082.	4.8	19
62	Low-temperature deposited ZnO thin films on the flexible substrate by cathodic vacuum arc technology. Applied Surface Science, 2011, 257, 7119-7122.	6.1	23
63	Technique of microball lens formation for efficient optical coupling. Applied Optics, 2004, 43, 5939.	2.1	16
64	Electromagnetic optical switch for optical network communication. Journal of Magnetism and Magnetic Materials, 2002, 239, 610-613.	2.3	12
65	Hexagonal microlens array fabricated by proximity printing via UV lithography. , 0, , .		0
66	A water-soluble copper-immobilized covalent organic framework functioning as an "ON" fluorescent sensor for amino acids. Materials Advances, 0, , .	5.4	23