

# Xu Cai

## List of Publications by Year in descending order

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60  
papers

800  
citations

567144

15  
h-index

610775

24  
g-index

63  
all docs

63  
docs citations

63  
times ranked

626  
citing authors

#	ARTICLE	IF	CITATIONS
1	Rapid Isolation and Hypoglycemic Activity of Secondary Metabolites of <i>Eurotium cristatum</i> by High-Speed Countercurrent Chromatography. <i>Journal of Chromatographic Science</i> , 2023, 61, 539-545.	0.7	2
2	Impact of tourniquet during total knee arthroplasty when tranexamic acid was used: a meta-analysis of randomized controlled trials. <i>Journal of Orthopaedic Surgery and Research</i> , 2022, 17, 18.	0.9	5
3	Power-Electronics-Based Mission Profile Emulation and Test for Electric Machine Drive System—Concepts, Features, and Challenges. <i>IEEE Transactions on Power Electronics</i> , 2022, 37, 8526-8542.	5.4	23
4	Mechanism and Cancellation of DC Current Fluctuation in MMC Excited by Circulating Current Mitigation Under Nearest Level Control. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2022, 10, 6822-6831.	3.7	1
5	Personalized tourniquet pressure may be a better choice than uniform tourniquet pressure during total knee arthroplasty. <i>Medicine (United States)</i> , 2022, 101, e28981.	0.4	2
6	Ultrasound assisted aqueous two-phase extraction of polysaccharides from <i>Cornus officinalis</i> fruit: Modeling, optimization, purification, and characterization. <i>Ultrasonics Sonochemistry</i> , 2022, 84, 105966.	3.8	29
7	Separation of gallic acid from <i>Cornus officinalis</i> and its interactions with corn starch. <i>International Journal of Biological Macromolecules</i> , 2022, 208, 390-399.	3.6	10
8	Sensor-guided gap balance versus manual gap balance in primary total knee arthroplasty: a meta-analysis. <i>Journal of Orthopaedic Surgery and Research</i> , 2022, 17, 243.	0.9	5
9	The Double-Circle System in the Greater Tuberosity: Using Radius to Predict Rotator Cuff Tear. <i>Orthopaedic Surgery</i> , 2022, , .	0.7	1
10	Separation of principal component dihydromyricetin from <i>Ampelopsis grossedentata</i> by high-speed countercurrent chromatography and its interaction with corn starch. <i>Journal of Food Science</i> , 2022, 87, 2350-2363.	1.5	5
11	Polysaccharides from Medicine and Food Homology Materials: A Review on Their Extraction, Purification, Structure, and Biological Activities. <i>Molecules</i> , 2022, 27, 3215.	1.7	21
12	Barbed Sutures in Total Knee Arthroplasty: A Meta-analysis of Randomized-Controlled Trials. <i>Journal of Knee Surgery</i> , 2021, 34, 1516-1526.	0.9	5
13	Three-Phase Mission Profile Emulator for Multiple Submodules in Modular Multilevel Converter. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 5213-5222.	5.4	15
14	Modeling and Correlation of Two Thermal Paths in Frequency-Domain Thermal Impedance Model of Power Module. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021, 9, 3971-3981.	3.7	16
15	Ultrasound-Assisted Enzymatic Extraction of Anthocyanins from Raspberry Wine Residues: Process Optimization, Isolation, Purification, and Bioactivity Determination. <i>Food Analytical Methods</i> , 2021, 14, 1369-1386.	1.3	23
16	Counter-Current Fractionation-Assisted Bioassay-Guided Separation of Active Compound from Blueberry and the Interaction between the Active Compound and $\beta$ -Glucosidase. <i>Foods</i> , 2021, 10, 509.	1.9	9
17	The impact of tourniquet on tibial bone cement penetration in different zones in primary total knee arthroplasty: a meta-analysis. <i>Journal of Orthopaedic Surgery and Research</i> , 2021, 16, 198.	0.9	1
18	Extraction and separation of flavonoids from <i>Malus hupehensis</i> using high-speed countercurrent chromatography based on deep eutectic solvent. <i>Journal of Chromatography A</i> , 2021, 1641, 461998.	1.8	24

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19	Optimization microwave-assisted extraction of anthocyanins from cranberry using response surface methodology coupled with genetic algorithm and kinetics model analysis. <i>Journal of Food Process Engineering</i> , 2021, 44, e13688.	1.5	7
20	Comparison of Blood Loss between Open-Box Prosthesis and Closed-Box Prosthesis after Primary Total Knee Arthroplasty. <i>Orthopaedic Surgery</i> , 2021, 13, 768-777.	0.7	1
21	Rapid enrichment and separation of two novel minor phenols from <i>Malus hupehensis</i> utilizing liquid-liquid extraction with three-phase solvent system and high-speed counter-current chromatography based on the polarity parameter. <i>Journal of Separation Science</i> , 2021, 44, 1843-1851.	1.3	9
22	Optimization ultrasound-assisted extraction of anthocyanins from cranberry using response surface methodology coupled with genetic algorithm and identification anthocyanins with HPLC-MS <sup>2</sup> . <i>Journal of Food Processing and Preservation</i> , 2021, 45, e15378.	0.9	9
23	Ultrasonic-Assisted Aqueous Two-Phase Extraction and Properties of Water-Soluble Polysaccharides from <i>Malus hupehensis</i> . <i>Molecules</i> , 2021, 26, 2213.	1.7	13
24	Morphological Characteristics of Acromion and Acromioclavicular Joint in Patients with Shoulder Impingement Syndrome and Related Recommendations: A Three-Dimensional Analysis Based on Multiplanar Reconstruction of Computed Tomography Scans. <i>Orthopaedic Surgery</i> , 2021, 13, 1309-1318.	0.7	3
25	A Controller Parameter Identification Method of PMSG-Based Wind Turbine Generator Based on Measured Impedance. , 2021, , .		1
26	Suprascapular nerve block is a clinically attractive alternative to interscalene nerve block during arthroscopic shoulder surgery: a meta-analysis of randomized controlled trials. <i>Journal of Orthopaedic Surgery and Research</i> , 2021, 16, 376.	0.9	14
27	A New Arthroscopic Tightrope Suture-Button Fixation Procedure for Tibial Eminence Avulsion Fracture. <i>Journal of Knee Surgery</i> , 2021, , .	0.9	0
28	Control and Design for Mission Profile Emulator of Individual Submodule in CPS-PWM-Based Modular Multilevel Converter. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021, 9, 3530-3539.	3.7	17
29	Modular DC-DC auto-transformer: Topology, operation, and system design. <i>IET Power Electronics</i> , 2021, 14, 2289-2302.	1.5	3
30	Capacitor Voltage Control for Mission Profile Emulator of Submodule in Modular Multilevel Converter. <i>IEEE Transactions on Power Electronics</i> , 2021, 36, 12355-12364.	5.4	7
31	Tea polyphenols alleviate hydrogen peroxide-induced oxidative stress damage through the Mst1/Nrf2 axis and the Keap1/Nrf2/HO-1 pathway in murine RAW264.7 cells. <i>Experimental and Therapeutic Medicine</i> , 2021, 22, 1473.	0.8	12
32	Suprascapular nerve block and axillary nerve block versus interscalene nerve block for arthroscopic shoulder surgery. <i>Medicine (United States)</i> , 2021, 100, e27661.	0.4	11
33	Self-Circulating Testing Method for Both Rectifying and Inverting Submodules of Modular Multilevel Converter With Low DC Supply Voltage. <i>IEEE Transactions on Power Electronics</i> , 2020, 35, 7795-7803.	5.4	25
34	Optimization Ultrasound-Assisted Deep Eutectic Solvent Extraction of Anthocyanins from Raspberry Using Response Surface Methodology Coupled with Genetic Algorithm. <i>Foods</i> , 2020, 9, 1409.	1.9	52
35	Ultrasound-assisted enzymatic extraction of anthocyanins from grape skins: optimization, identification, and antitumor activity. <i>Journal of Food Science</i> , 2020, 85, 3731-3744.	1.5	30
36	Transosseous versus transmuscular repair of the posterior soft tissue in primary hip arthroplasty: a meta-analysis. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 547.	0.9	3

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37	Ultrasound-Assisted Deep Eutectic Solvent Extraction of Anthocyanins from Blueberry Wine Residues: Optimization, Identification, and HepG2 Antitumor Activity. <i>Molecules</i> , 2020, 25, 5456.	1.7	18
38	Infrapatellar fat pad resection or preservation during total knee arthroplasty: a meta-analysis of randomized controlled trials. <i>Journal of Orthopaedic Surgery and Research</i> , 2020, 15, 297.	0.9	13
39	Cyanidin-3-glucoside prevents hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> )-induced oxidative damage in HepG2 cells. <i>Biotechnology Letters</i> , 2020, 42, 2453-2466.	1.1	16
40	Meniscus Graft Augmentation for a Midsubstance Tear of the Medial Collateral Ligament during Total Knee Arthroplasty. <i>Journal of Knee Surgery</i> , 2020, , .	0.9	1
41	Separation of six antioxidants from <i>Hypsizygus marmoreus</i> by high-speed countercurrent chromatography utilizing an approach based upon the polarity parameter model. <i>Journal of Chromatography A</i> , 2020, 1633, 461650.	1.8	16
42	Autonomous Synchronizing and Frequency Response Control of Multi-terminal DC Systems With Wind Farm Integration. <i>IEEE Transactions on Sustainable Energy</i> , 2020, 11, 2504-2514.	5.9	46
43	Inter Harmonic THD Amplification of Voltage Source Converter: Concept and Case Study. <i>IEEE Transactions on Power Electronics</i> , 2020, 35, 12651-12656.	5.4	15
44	Dichloromethane Extract of Fermentation Broth by Co-Culture of <i>Morchella esculenta</i> and <i>Coprinus comatus</i> Induces Apoptosis in U251 Cells via Mitochondrial Intrinsic Pathway. <i>International Journal of Medicinal Mushrooms</i> , 2020, 22, 1001-1010.	0.9	1
45	Asperpyrone F, a new dimeric naphtho- $\beta$ -pyrone from the edible fungus <i>Pleurotus ostreatus</i> . <i>Natural Product Research</i> , 2019, 33, 1953-1960.	1.0	8
46	Counter-current fractionation-assisted bioassay-guided separation of active composition from the edible medicinal insect <i>Blaps rynchopetera</i> Fairmaire. <i>Journal of Chromatography A</i> , 2019, 1603, 433-437.	1.8	13
47	A New Hybrid Modular Multilevel Converter With Integrated Energy Storage. <i>IEEE Access</i> , 2019, 7, 172981-172993.	2.6	18
48	Rapid analysis of chemical composition in the active extract against $\alpha$ -amylase from <i>Blaps rynchopetera</i> fairmaire by GC-MS and in silico theoretical explanation. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2019, 42, 469-474.	0.5	3
49	An efficient high-speed countercurrent chromatography method for preparative separation of javanicin from <i>Fusarium solani</i> , a fungus isolated from the fruiting body of the mushroom <i>Trametes trogii</i> . <i>Biomedical Chromatography</i> , 2019, 33, e4574.	0.8	5
50	Sensorless control on a dual-fed flux modulated electric motor. <i>CES Transactions on Electrical Machines and Systems</i> , 2019, 3, 65-71.	2.7	1
51	Voltage source control of offshore all-DC wind farm. <i>IET Renewable Power Generation</i> , 2019, 13, 2986-2993.	1.7	6
52	Isolation and Purification of Anthocyanin from Blueberry Using Macroporous Resin Combined Sephadex LH-20 Techniques. <i>Food Science and Technology Research</i> , 2019, 25, 29-38.	0.3	16
53	Separation of five naphtho- $\beta$ -pyrones from <i>Pleurotus ostreatus</i> by high-speed countercurrent chromatography. <i>Journal of Separation Science</i> , 2018, 41, 4551-4558.	1.3	12
54	Total flavones of fermentation broth by co-culture of <i>Coprinus comatus</i> and <i>Morchella esculenta</i> induces an anti-inflammatory effect on LPS-stimulated RAW264.7 macrophages cells via the MAPK signaling pathway. <i>Microbial Pathogenesis</i> , 2018, 125, 431-437.	1.3	16

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55	Effects of Microwave Power on Extraction Kinetic of Anthocyanin from Blueberry Powder considering Absorption of Microwave Energy. Journal of Food Quality, 2018, 2018, 1-13.	1.4	34
56	Effect of microwave energy dissipation on drying process of berry puree under microwave foam drying conditions. Drying Technology, 2017, 35, 1388-1397.	1.7	11
57	The mechanism of Naringin-enhanced remyelination after spinal cord injury. Neural Regeneration Research, 2017, 12, 470.	1.6	17
58	Higher-moment singularities explored by net-proton nonstatistical fluctuations. Physical Review C, 2012, 85, .	1.1	17
59	Mixed PWM for Dead-Time Elimination and Compensation in a Grid-Tied Inverter. IEEE Transactions on Industrial Electronics, 2011, 58, 4797-4803.	5.2	77
60	The diagnostic method of earth fault based on the evolution of fault in distribution network. , 2011, , .		4