

# Cheng-Kuan Su

## List of Publications by Year in descending order

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45  
papers

698  
citations

623188

14  
h-index

580395

25  
g-index

45  
all docs

45  
docs citations

45  
times ranked

902  
citing authors

#	ARTICLE	IF	CITATIONS
1	Solution Foamingâ€“Treated 3D-Printed monolithic packing for enhanced solid phase extraction of trace metals. <i>Talanta</i> , 2022, 241, 123237.	2.9	8
2	4D-printed pH sensing claw. <i>Analytica Chimica Acta</i> , 2022, 1204, 339733.	2.6	11
3	Review of 3D-Printed functionalized devices for chemical and biochemical analysis. <i>Analytica Chimica Acta</i> , 2021, 1158, 338348.	2.6	28
4	Materials Engineering of Violin Soundboards by Stradivari and Guarneri. <i>Angewandte Chemie</i> , 2021, 133, 19293-19303.	1.6	6
5	Materials Engineering of Violin Soundboards by Stradivari and Guarneri. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 19144-19154.	7.2	11
6	4D-Printed Temperature-Controlled Flow-Actuated Solid-Phase Extraction Devices. <i>Analytical Chemistry</i> , 2021, 93, 11497-11505.	3.2	10
7	Frontispiece: Materials Engineering of Violin Soundboards by Stradivari and Guarneri. <i>Angewandte Chemie - International Edition</i> , 2021, 60, .	7.2	0
8	Frontispiz: Materials Engineering of Violin Soundboards by Stradivari and Guarneri. <i>Angewandte Chemie</i> , 2021, 133, .	1.6	0
9	Identified Seaweed Compound Diphenylmethane Serves as an Efflux Pump Inhibitor in Drug-Resistant <i>Escherichia coli</i> . <i>Antibiotics</i> , 2021, 10, 1378.	1.5	4
10	A Unique Diel Pattern in Carbonate Chemistry in the Seagrass Meadows of Dongsha Island: The Enhancement of Metabolic Carbonate Dissolution in a Semienclosed Lagoon. <i>Frontiers in Marine Science</i> , 2021, 8, .	1.2	6
11	Development of online microdialysisâ€“microfluidic-based photocatalyst-assisted vaporization deviceâ€“inductively coupled plasma-mass spectrometry hyphenated analytical system for in vivo quantification of the transition of brain extracellular mercury after thimerosal administration. <i>Microchemical Journal</i> , 2020, 154, 104569.	2.3	3
12	Biodistribution of Graphene Oxide Determined through Postadministration Labeling with DNA-Conjugated Gold Nanoparticles and ICPMS. <i>Analytical Chemistry</i> , 2020, 92, 13997-14005.	3.2	10
13	Injectable DNA-architected nanoraspberry depot-mediated on-demand programmable refilling and release drug delivery. <i>Nanoscale</i> , 2020, 12, 11153-11164.	2.8	8
14	3D-Printed Column with Porous Monolithic Packing for Online Solid-Phase Extraction of Multiple Trace Metals in Environmental Water Samples. <i>Analytical Chemistry</i> , 2020, 92, 9640-9648.	3.2	38
15	NIR-cleavable drug adducts of gold nanostars for overcoming multidrug-resistant tumors. <i>Biomaterials Science</i> , 2020, 8, 1934-1950.	2.6	9
16	3D-printed CuO nanoparticleâ€“functionalized flow reactor enables online fluorometric monitoring of glucose. <i>Mikrochimica Acta</i> , 2019, 186, 404.	2.5	13
17	Speciation of trace iron in environmental water using 3D-printed minicolumns coupled with inductively coupled plasma mass spectrometry. <i>Microchemical Journal</i> , 2019, 146, 835-841.	2.3	32
18	Online profiling of living rat brain extracellular pH using a pH-Dependent solid phase extraction scheme coupled with microdialysis sampling and inductively coupled plasma mass spectrometry. <i>Analytica Chimica Acta</i> , 2019, 1055, 36-43.	2.6	10

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19	3D-printed, TiO <sub>2</sub> NP-incorporated minicolumn coupled with ICP-MS for speciation of inorganic arsenic and selenium in high-salt-content samples. <i>Mikrochimica Acta</i> , 2018, 185, 268.	2.5	33
20	Bioprosthesis of Core-Shell Gold Nanorod/Serum Albumin Nanoimitation: A Half-Native and Half-Artificial Nanohybrid for Cancer Theranostics. <i>Chemistry of Materials</i> , 2018, 30, 729-747.	3.2	18
21	One-step three-dimensional printing of enzyme/substrate-incorporated devices for glucose testing. <i>Analytica Chimica Acta</i> , 2018, 1036, 133-140.	2.6	18
22	Frontispiece: A Highly Stable Framework of Crystalline Zinc Phosphite with Selective Removal, Recovery, and Turn-On Sensing Abilities for Mercury Cations in Aqueous Solutions. <i>Chemistry - A European Journal</i> , 2018, 24, .	1.7	0
23	Peroxidase-mimicking PtNP-coated, 3D-printed multi-well plate for rapid determination of glucose and lactate in clinical samples. <i>Sensors and Actuators B: Chemical</i> , 2018, 269, 46-53.	4.0	5
24	A Highly Stable Framework of Crystalline Zinc Phosphite with Selective Removal, Recovery, and Turn-On Sensing Abilities for Mercury Cations in Aqueous Solutions. <i>Chemistry - A European Journal</i> , 2018, 24, 9729-9734.	1.7	23
25	Sequential enzymatic derivatization coupled with online microdialysis sampling for simultaneous profiling of mouse tumor extracellular hydrogen peroxide, lactate, and glucose. <i>Analytica Chimica Acta</i> , 2017, 956, 24-31.	2.6	5
26	Using on-line solid phase extraction for in vivo speciation of diffusible ferrous and ferric iron in living rat brain extracellular fluid. <i>Analytica Chimica Acta</i> , 2017, 953, 87-94.	2.6	9
27	Reusable, 3D-printed, peroxidase mimicking-incorporating multi-well plate for high-throughput glucose determination. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 641-647.	4.0	15
28	Albumin-Gold Nanorod Nanoplatfrom for Cell-Mediated Tumoritropic Delivery with Homogenous ChemoDrug Distribution and Enhanced Retention Ability. <i>Theranostics</i> , 2017, 7, 3034-3052.	4.6	22
29	Enzyme-Immobilized 3D-Printed Reactors for Online Monitoring of Rat Brain Extracellular Glucose and Lactate. <i>Analytical Chemistry</i> , 2016, 88, 6265-6273.	3.2	43
30	Three-dimensional printed knotted reactors enabling highly sensitive differentiation of silver nanoparticles and ions in aqueous environmental samples. <i>Analytica Chimica Acta</i> , 2016, 914, 110-116.	2.6	14
31	Online open-tubular fractionation scheme coupled with push-pull perfusion sampling for profiling extravasation of gold nanoparticles in a mouse tumor model. <i>Journal of Chromatography A</i> , 2015, 1402, 1-7.	1.8	2
32	Selective chemical vaporization of exogenous tellurium for characterizing the time-dependent biodistribution and dissolution of quantum dots in living rats. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 426-434.	1.6	6
33	Fully 3D-Printed Preconcentrator for Selective Extraction of Trace Elements in Seawater. <i>Analytical Chemistry</i> , 2015, 87, 6945-6950.	3.2	85
34	Considerations of inductively coupled plasma mass spectrometry techniques for characterizing the dissolution of metal-based nanomaterials in biological tissues. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1689-1705.	1.6	22
35	Using copper ions to amplify ROS-mediated fluorescence for continuous online monitoring of extracellular glucose in living rat brain. <i>Biosensors and Bioelectronics</i> , 2015, 64, 535-541.	5.3	6
36	A high-throughput microdialysis-parallel solid phase extraction-inductively coupled plasma mass spectrometry hyphenated system for continuous monitoring of extracellular metal ions in living rat brain. <i>Journal of Chromatography A</i> , 2014, 1326, 73-79.	1.8	6

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37	In vivo measurement of extravasation of silver nanoparticles into liver extracellular space by push-pull-based continuous monitoring system. <i>Toxicology Letters</i> , 2014, 227, 84-90.	0.4	7
38	In-vivo evaluation of the permeability of the blood-brain barrier to arsenicals, molybdate, and methylmercury by use of online microdialysis-packed minicolumn-inductively coupled plasma mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 239-247.	1.9	14
39	Quantitatively Profiling the Dissolution and Redistribution of Silver Nanoparticles in Living Rats Using a Knotted Reactor-Based Differentiation Scheme. <i>Analytical Chemistry</i> , 2014, 86, 8267-8274.	3.2	38
40	Three-dimensional printed sample load/inject valves enabling online monitoring of extracellular calcium and zinc ions in living rat brains. <i>Analytica Chimica Acta</i> , 2014, 838, 58-63.	2.6	46
41	Chemically differentiating ascorbate-mediated dissolution of quantum dots in cell culture media. <i>Nanoscale</i> , 2013, 5, 2073.	2.8	4
42	<i>In vivo</i> monitoring of distributional transport kinetics and extravasation of quantum dots in living rat liver. <i>Nanotechnology</i> , 2013, 24, 165101.	1.3	9
43	Simultaneous in vivo monitoring of multiple brain metals using an online microdialysis-in-loop solid phase extraction-inductively coupled plasma mass spectrometry system. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 56-62.	1.6	12
44	Online solid phase extraction using a PVC-packed minicolumn coupled with ICP-MS for determination of trace multielements in complicated matrices. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1585.	1.6	8
45	<i>In vivo</i> monitoring of the transfer kinetics of trace elements in animal brains with hyphenated inductively coupled plasma mass spectrometry techniques. <i>Mass Spectrometry Reviews</i> , 2010, 29, 392-424.	2.8	21