

List of Publications by Citations

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Version: 2024-04-10

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

40 papers	721 citations	15 h-index	26 g-index
45 ext. papers	965 ext. citations	7.1 avg, IF	4.37 L-index

#	Paper	IF	Citations
40	Carbon dots prepared from ginger exhibiting efficient inhibition of human hepatocellular carcinoma cells. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 4564-4571	7.3	179
39	Electrochemical imaging of cells and tissues. <i>Chemical Science</i> , 2018 , 9, 4546-4554	9.4	56
38	Power-to-fuels via solid-oxide electrolyzer: Operating window and techno-economics. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 110, 174-187	16.2	53
37	Monitoring Tyrosinase Expression in Non-metastatic and Metastatic Melanoma Tissues by Scanning Electrochemical Microscopy. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3813-6	16.4	40
36	Fuel cell-battery hybrid systems for mobility and off-grid applications: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 135, 110119	16.2	38
35	Colorimetric detection of platelet-derived growth factors through competitive interactions between proteins and functional gold nanoparticles. <i>Biosensors and Bioelectronics</i> , 2011 , 29, 204-9	11.8	33
34	Power-to-methane via co-electrolysis of H ₂ O and CO ₂ : The effects of pressurized operation and internal methanation. <i>Applied Energy</i> , 2019 , 250, 1432-1445	10.7	29
33	Soft Electrochemical Probes for Mapping the Distribution of Biomarkers and Injected Nanomaterials in Animal and Human Tissues. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 16498-16502	16.4	26
32	MALDI Detection of Exosomes: A Potential Tool for Cancer Studies. <i>Chem</i> , 2019 , 5, 1318-1336	16.2	25
31	A solvent-resistant azide-based hole injection/transporting conjugated polymer for fluorescent and phosphorescent light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 8142-8151	7.1	25
30	Nanostructured mesoporous gold biosensor for microRNA detection at attomolar level. <i>Biosensors and Bioelectronics</i> , 2020 , 168, 112429	11.8	25
29	A Review of Evaluation, Optimization and Synthesis of Energy Systems: Methodology and Application to Thermal Power Plants. <i>Energies</i> , 2019 , 12, 73	3.1	24
28	Multiple scanning electrochemical microscopy mapping of tyrosinase in micro-contact printed fruit samples on polyvinylidene fluoride membrane. <i>Electrochimica Acta</i> , 2015 , 179, 57-64	6.7	23
27	Reversible solid-oxide cell stack based power-to-x-to-power systems: Comparison of thermodynamic performance. <i>Applied Energy</i> , 2020 , 275, 115330	10.7	20
26	A Review: Electrochemical Biosensors for Oral Cancer. <i>Chemosensors</i> , 2020 , 8, 54	4	16
25	Tape-Stripping Electrochemical Detection of Melanoma. <i>Analytical Chemistry</i> , 2019 , 91, 12900-12908	7.8	13
24	Ingestible polysaccharide battery coupled with a self-charging nanogenerator for controllable disinfection system. <i>Nano Energy</i> , 2021 , 79, 105440	17.1	13

23	Mapping the antioxidant activity of apple peels with soft probe scanning electrochemical microscopy. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 786, 120-128	4.1	12
22	A Review: Scanning Electrochemical Microscopy (SECM) for Visualizing the Real-Time Local Catalytic Activity. <i>Catalysts</i> , 2021 , 11, 594	4	11
21	Fixation and Permeabilization Approaches for Scanning Electrochemical Microscopy of Living Cells. <i>Analytical Chemistry</i> , 2016 , 88, 11436-11443	7.8	10
20	Positional effects on helical Ala-based peptides. <i>Biochemistry</i> , 2010 , 49, 9372-84	3.2	9
19	MXene Nanosheet-Based Microneedles for Monitoring Muscle Contraction and Electrostimulation Treatment. <i>ACS Applied Nano Materials</i> , 2021 , 4, 7917-7924	5.6	8
18	Advanced Exergoeconomic Evaluation of Large-Scale Coal-Fired Power Plant. <i>Journal of Energy Engineering - ASCE</i> , 2020 , 146, 04019032	1.7	7
17	Electrostatic Spray Ionization from 384-Well Microtiter Plates for Mass Spectrometry Analysis-Based Enzyme Assay and Drug Metabolism Screening. <i>Analytical Chemistry</i> , 2017 , 89, 5983-5990	7.8	6
16	Reversible solid-oxide cell stack based power-to-x-to-power systems: Economic potential evaluated via plant capital-cost target. <i>Applied Energy</i> , 2021 , 290, 116700	10.7	5
15	Untersuchung der Tyrosinase-Expression in nicht-metastatischen und metastatischen Melanomgeweben durch elektrochemische Rastersondenmikroskopie. <i>Angewandte Chemie</i> , 2016 , 128, 3878-3881	3.6	3
14	Communication Scanning Electrochemical Microscopy Analysis of Interleukin-6 in Oral Cancer. <i>ECS Journal of Solid State Science and Technology</i> , 2020 , 9, 115028	2	2
13	Triple-mode grid-balancing plants via biomass gasification and reversible solid-oxide cell stack: Concept and thermodynamic performance. <i>Applied Energy</i> , 2020 , 280, 115987	10.7	2
12	Rapid Noninvasive Skin Monitoring by Surface Mass Recording and Data Learning. <i>Jacs Au</i> , 2021 , 1, 598-611		2
11	Soft Probe Scanning Electrochemical Microscopy with Spider Array for Visualizing Biomarkers and Redox Active Proteins in Animal Tissues. <i>ECS Transactions</i> , 2017 , 77, 85-90	1	1
10	Monitoring Tyrosinase Expression in Non-metastatic and Metastatic Melanoma Tissues by SECM. <i>Springer Theses</i> , 2019 , 53-62	0.1	1
9	Miniaturized Salinity Gradient Energy Harvesting Devices. <i>Molecules</i> , 2021 , 26,	4.8	1
8	Chemical and biological assessments of environmental mixtures: A review of current trends, advances, and future perspectives.. <i>Journal of Hazardous Materials</i> , 2022 , 432, 128658	12.8	1
7	Soft Probes for Scanning Electrochemical Microscopy 2018 , 355-371		
6	Microfluidic Probes for Scanning Electrochemical Microscopy 2018 , 373-390		

- 5 Weiche elektrochemische Sonden zum Abbilden der Verteilung von Biomarkern und injizierten Nanomaterialien in tierischem und menschlichem Gewebe. *Angewandte Chemie*, **2017**, 129, 16722-16727^{3,6}
- 4 From Tissues to Organs: Soft Electrochemical Probes for Scanning Human and Animal Tissues. *Springer Theses*, **2019**, 63-85 O.1
- 3 Imaging the Distribution of Graphene Oxide Nanoribbons in Mice Livers by Soft Probe SECM. *Springer Theses*, **2019**, 87-100 O.1
- 2 Multiple SECM Mapping of Tyrosinase in Micro-contact Printed Fruit Samples on Polyvinylidene Fluoride Membrane. *Springer Theses*, **2019**, 37-52 O.1
- 1 Mapping the Antioxidant Activity of Apple Peels with Soft Probe Scanning Electrochemical Microscopy. *Springer Theses*, **2019**, 101-116 O.1