

Andreas Lesch

List of Publications by Year in descending order

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66
papers

2,025
citations

236925

25
h-index

254184

43
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68
all docs

68
docs citations

68
times ranked

2345
citing authors

#	ARTICLE	IF	CITATIONS
1	Single Cell Electrochemiluminescence Imaging: From the Proof-of-Concept to Disposable Device-Based Analysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 16830-16837.	13.7	221
2	Surface-Confined Electrochemiluminescence Microscopy of Cell Membranes. <i>Journal of the American Chemical Society</i> , 2018, 140, 14753-14760.	13.7	221
3	Water-Repellent Low-Dimensional Fluorous Perovskite as Interfacial Coating for 20% Efficient Solar Cells. <i>Nano Letters</i> , 2018, 18, 5467-5474.	9.1	118
4	Electrochemical imaging of cells and tissues. <i>Chemical Science</i> , 2018, 9, 4546-4554.	7.4	73
5	Electrochemical detection of free chlorine at inkjet printed silver electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2015, 756, 171-178.	3.8	72
6	Inkjet-Printed Mesoporous TiO ₂ and Perovskite Layers for High Efficiency Perovskite Solar Cells. <i>Energy Technology</i> , 2019, 7, 317-324.	3.8	67
7	Microfluidic Push-Pull Probe for Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2011, 83, 5275-5282.	6.5	62
8	Seeing Big with Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2011, 83, 1493-1499.	6.5	60
9	Monitoring Tyrosinase Expression in Non-metastatic and Metastatic Melanoma Tissues by Scanning Electrochemical Microscopy. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3813-3816.	13.8	57
10	Parallel Imaging and Template-Free Patterning of Self-Assembled Monolayers with Soft Linear Microelectrode Arrays. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 10413-10416.	13.8	52
11	Electrochemical Push-Pull Scanner with Mass Spectrometry Detection. <i>Analytical Chemistry</i> , 2012, 84, 6630-6637.	6.5	50
12	Large scale inkjet-printing of carbon nanotubes electrodes for antioxidant assays in blood bags. <i>Journal of Electroanalytical Chemistry</i> , 2014, 717-718, 61-68.	3.8	48
13	Inkjet-Printed Carbon Nanotube Electrodes for Measuring Pyocyanin and Uric Acid in a Wound Fluid Simulant and Culture Media. <i>Analytical Chemistry</i> , 2019, 91, 8835-8844.	6.5	46
14	Inkjet-printed microtiter plates for portable electrochemical immunoassays. <i>Journal of Electroanalytical Chemistry</i> , 2017, 786, 69-76.	3.8	45
15	The antioxidant capacity of erythrocyte concentrates is increased during the first week of storage and correlated with the uric acid level. <i>Vox Sanguinis</i> , 2017, 112, 638-647.	1.5	45
16	Fabrication of soft gold microelectrode arrays as probes for scanning electrochemical microscopy. <i>Journal of Electroanalytical Chemistry</i> , 2012, 666, 52-61.	3.8	44
17	Soft Microelectrode Linear Array for Scanning Electrochemical Microscopy. <i>Analytical Chemistry</i> , 2010, 82, 10037-10044.	6.5	43
18	Large-scale layer-by-layer inkjet printing of flexible iridium-oxide based pH sensors. <i>Journal of Electroanalytical Chemistry</i> , 2018, 819, 384-390.	3.8	43

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19	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.	13.8	35
20	Fashioning Fluorous Organic Spacers for Tunable and Stable Layered Hybrid Perovskites. <i>Chemistry of Materials</i> , 2018, 30, 8211-8220.	6.7	35
21	Inkjet Printed Nanohydrogel Coated Carbon Nanotubes Electrodes For Matrix Independent Sensing. <i>Analytical Chemistry</i> , 2015, 87, 1026-1033.	6.5	34
22	Aqueous metal-organic solutions for YSZ thin film inkjet deposition. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6021-6029.	5.5	32
23	Fountain pen for scanning electrochemical microscopy. <i>Analytical Methods</i> , 2010, 2, 817.	2.7	30
24	High-throughput scanning electrochemical microscopy brushing of strongly tilted and curved surfaces. <i>Electrochimica Acta</i> , 2013, 110, 30-41.	5.2	28
25	Immunoaffinity Amperometric Detection of Bacterial Infections. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14942-14946.	13.8	28
26	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.	5.2	26
27	Inkjet Printing Meets Electrochemical Energy Conversion. <i>Chimia</i> , 2015, 69, 284.	0.6	24
28	Electrochemical Push-Pull Probe: From Scanning Electrochemical Microscopy to Multimodal Altering of Cell Microenvironment. <i>Analytical Chemistry</i> , 2015, 87, 4479-4486.	6.5	22
29	Point-of-care amperometric determination of L-dopa using an inkjet-printed carbon nanotube electrode modified with dandelion-like MnO ₂ microspheres. <i>Mikrochimica Acta</i> , 2019, 186, 532.	5.0	21
30	Tape-Stripping Electrochemical Detection of Melanoma. <i>Analytical Chemistry</i> , 2019, 91, 12900-12908.	6.5	21
31	Inkjet-Printed Carbon Nanotube Electrodes Modified with Dimercaptosuccinic Acid-Capped Fe ₃ O ₄ Nanoparticles on Reduced Graphene Oxide Nanosheets for Single-Drop Determination of Trifluoperazine. <i>ACS Applied Nano Materials</i> , 2020, 3, 4654-4662.	5.0	21
32	Electrochemical Pseudo-Titration of Water-Soluble Antioxidants. <i>Electroanalysis</i> , 2013, 25, 922-930.	2.9	19
33	Assembling Ni-Fe Layered Double Hydroxide 2D Thin Films for Oxygen Evolution Electrodes. <i>ACS Applied Energy Materials</i> , 2020, 3, 1017-1026.	5.1	19
34	Mapping the antioxidant activity of apple peels with soft probe scanning electrochemical microscopy. <i>Journal of Electroanalytical Chemistry</i> , 2017, 786, 120-128.	3.8	18
35	Print-Light-Synthesis of Platinum Nanostructured Indium-Tin-Oxide Electrodes for Energy Research. <i>Advanced Materials Technologies</i> , 2018, 3, 1700201.	5.8	18
36	Montmorillonite clay-modified disposable ink-jet-printed graphene electrode as a sensitive voltammetric sensor for the determination of cadmium(II) and lead(II). <i>SN Applied Sciences</i> , 2020, 2, 1.	2.9	18

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37	Electrostatic Spray Ionization Mass Spectrometry Imaging. <i>Analytical Chemistry</i> , 2014, 86, 2033-2041.	6.5	17
38	Rapid inkjet printing of high catalytic activity Co ₃ O ₄ /N-rGO layers for oxygen reduction reaction. <i>Applied Catalysis A: General</i> , 2018, 563, 9-17.	4.3	17
39	Rapid optimization of a lactate biosensor design using soft probes scanning electrochemical microscopy. <i>Journal of Electroanalytical Chemistry</i> , 2014, 731, 112-118.	3.8	16
40	Fixation and Permeabilization Approaches for Scanning Electrochemical Microscopy of Living Cells. <i>Analytical Chemistry</i> , 2016, 88, 11436-11443.	6.5	15
41	Print-Light-Synthesis of Ni and NiFe-Nanoscale Catalysts for Oxygen Evolution. <i>ACS Applied Energy Materials</i> , 2019, 2, 6322-6331.	5.1	15
42	Local control of protein binding and cell adhesion by patterned organic thin films. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 3673-3691.	3.7	14
43	(Invited) Point-of-Care Diagnostics with Inkjet-Printed Microchips. <i>ECS Transactions</i> , 2017, 77, 73-81.	0.5	12
44	Disposable Biosensor Based on Amidase/CeO ₂ /GNR Modified Inkjet-Printed CNT Electrodesâ€•droplet Based Paracetamol Detection in Biological Fluids for â€œPointâ€•ofâ€•careâ€•Applications. <i>Electroanalysis</i> , 2019, 31, 1517-1525.	2.9	11
45	Local Study on Hydrogen and Hydrogen Gas Bubble Formation on a Platinum Electrode. <i>Journal of Physical Chemistry C</i> , 2019, 123, 10849-10856.	3.1	11
46	Highly Loaded Mildly Edgeâ€•Oxidized Graphene Nanosheet Dispersions for Largeâ€•Scale Inkjet Printing of Electrochemical Sensors. <i>ChemElectroChem</i> , 2020, 7, 460-468.	3.4	11
47	Soft-probe-scanning electrochemical microscopy reveals electrochemical surface reactivity of E. coli biofilms. <i>Sensors and Actuators B: Chemical</i> , 2021, 334, 129669.	7.8	11
48	Finger Probe Array for Topography-Tolerant Scanning Electrochemical Microscopy of Extended Samples. <i>Analytical Chemistry</i> , 2014, 86, 713-720.	6.5	10
49	A new sensor based on an amino-montmorillonite-modified inkjet-printed graphene electrode for the voltammetric determination of gentisic acid. <i>Mikrochimica Acta</i> , 2021, 188, 36.	5.0	10
50	Printing of NiO-YSZ nanocomposites: From continuous synthesis to inkjet deposition. <i>Journal of the European Ceramic Society</i> , 2019, 39, 1279-1286.	5.7	9
51	Rapid Noninvasive Skin Monitoring by Surface Mass Recording and Data Learning. <i>Jacs Au</i> , 2021, 1, 598-611.	7.9	5
52	Untersuchung der Tyrosinaseâ€•Expression in nichtâ€•metastatischen und metastatischen Melanomgeweben durch elektrochemische Rastersondenmikroskopie. <i>Angewandte Chemie</i> , 2016, 128, 3878-3881.	2.0	3
53	Immunaflin amperometrische Detektion bakterieller Infektionen. <i>Angewandte Chemie</i> , 2018, 130, 15158-15162.	2.0	3
54	Impact of cation redox chemistry on continuous hydrothermal synthesis of 2D-Ni(Co/Fe) hydroxides. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 2060-2073.	3.7	3

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55	Soft Probe Scanning Electrochemical Microscopy with Spider Array for Visualizing Biomarkers and Redox Active Proteins in Animal Tissues. ECS Transactions, 2017, 77, 85-90.	0.5	2
56	External control of anodic dissolution mechanism of 100Cr6 in nitrate/chloride mixed electrolytes. Journal of Electrochemical Science and Engineering, 2011, , .	3.5	2
57	Analytical Chemistry at the Laboratoire d'Electrochimie Physique et Analytique. Chimia, 2015, 69, 290-293.	0.6	1
58	Soft Microelectrode Arrays as SECM Probes for Biological Samples. ECS Meeting Abstracts, 2012, , .	0.0	0
59	Weiche elektrochemische Sonden zum Abbilden der Verteilung von Biomarkern und injizierten Nanomaterialien in tierischem und menschlichem Gewebe. Angewandte Chemie, 2017, 129, 16722-16727.	2.0	0
60	Soft Probes for Scanning Electrochemical Microscopy. , 0, , 355-371.		0
61	Microfluidic Probes for Scanning Electrochemical Microscopy. , 0, , 373-390.		0
62	Scanning Electrochemical Microscopy for Bioimaging. , 2018, , 445-452.		0
63	Large-Scale Production of Electrocatalyst Micro- and Nanoparticles By Photonic Curing of Inkjet Printed Metal and Metal Alloy Precursor Inks. ECS Meeting Abstracts, 2017, , .	0.0	0
64	Soft Probe Scanning Electrochemical Microscopy with Spider Array for Visualizing Biomarkers and Redox Active Proteins in Animal Tissues. ECS Meeting Abstracts, 2017, , .	0.0	0
65	(Invited) Point-of-Care Diagnostics with Inkjet-Printed Microchips. ECS Meeting Abstracts, 2017, , .	0.0	0
66	(Invited) Detection of Cancer Biomarkers By Scanning Electrochemical Microscopy. ECS Meeting Abstracts, 2020, MA2020-01, 1440-1440.	0.0	0