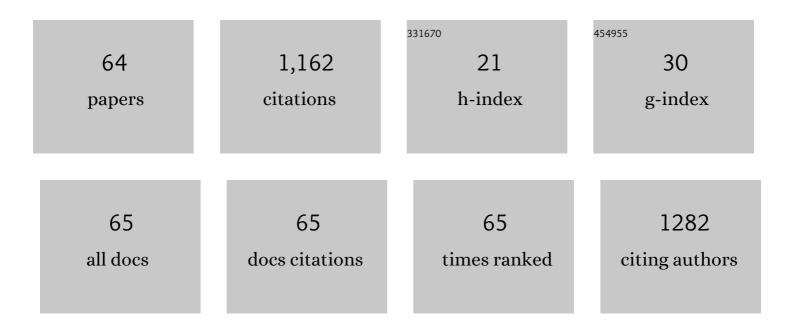
List of Publications by Year in descending order

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FALK MUENCH

#	Article	IF	CITATIONS
1	Direct surface functionalization with metal and metal oxide nanostructures. , 2023, , 318-336.		1
2	Increasing the structural and compositional diversity of ion-track templated 1D nanostructures through multistep etching, plastic deformation, and deposition. Nanotechnology, 2022, 33, 245603.	2.6	4
3	Hierarchical pipe cactus-like Ni/NiCo-LDH core–shell nanotube networks as a self-supported battery-type electrode for supercapacitors with high volumetric energy density. Journal of Materials Chemistry A, 2022, 10, 12473-12488.	10.3	36
4	A simple and effective method for the accurate extraction of kinetic parameters using differential Tafel plots. Scientific Reports, 2021, 11, 8974.	3.3	32
5	Electrodeposition of palladium-dotted nickel nanowire networks as a robust self-supported methanol electrooxidation catalyst. Journal of Materials Science, 2021, 56, 12620-12633.	3.7	3
6	Electroless Plating of Metal Nanomaterials. ChemElectroChem, 2021, 8, 2993-3012.	3.4	37
7	3D NiCo-Layered double Hydroxide@Ni nanotube networks as integrated free-standing electrodes for nonenzymatic glucose sensing. Journal of Colloid and Interface Science, 2021, 591, 384-395.	9.4	35
8	Electroless Plating of Metal Nanomaterials. ChemElectroChem, 2021, 8, 2988-2989.	3.4	1
9	Larch-derived hierarchical nitrogen-doped carbon with echinus-like architecture for supercapacitor applications. Holzforschung, 2020, 74, 529-538.	1.9	1
10	Electroless Nanoplating of Pdâ^'Pt Alloy Nanotube Networks: Catalysts with Full Compositional Control for the Methanol Oxidation Reaction. ChemElectroChem, 2020, 7, 855-864.	3.4	12
11	<i>In Situ</i> Transmission Electron Microscopy Analysis of Thermally Decaying Polycrystalline Platinum Nanowires. ACS Nano, 2020, 14, 11309-11318.	14.6	5
12	Electroless Nanoplating of Iridium: Templateâ€Assisted Nanotube Deposition for the Continuous Flow Reduction of 4â€Nitrophenol. ChemElectroChem, 2020, 7, 3496-3507.	3.4	5
13	Dual Metastability in Electroless Plating: Complex Inertness Enabling the Deposition of Compositionâ€Tunable Platinum Copper Alloy Nanostructures. Chemistry - A European Journal, 2020, 26, 3030-3033.	3.3	6
14	Electrical and thermal conductivities of polycrystalline platinum nanowires. Nanotechnology, 2019, 30, 455706.	2.6	5
15	Conformal Solution Deposition of Pt-Pd Titania Nanocomposite Coatings for Light-Assisted Formic Acid Electro-Oxidation. ACS Applied Materials & amp; Interfaces, 2019, 11, 43081-43092.	8.0	17
16	Empowering Electroless Plating to Produce Silver Nanoparticle Films for DNA Biosensing Using Localized Surface Plasmon Resonance Spectroscopy. ACS Applied Bio Materials, 2019, 2, 856-864.	4.6	17
17	Data on peptidyl platform-based anticancer drug synthesis and triton-x-based micellar clusters (MCs) self-assembly peculiarities for enhanced solubilization, encapsulation of hydrophobic compounds and their interaction with HeLa cells. Data in Brief, 2019, 25, 104052.	1.0	2
18	Self-assembled micellar clusters based on Triton-X-family surfactants for enhanced solubilization, encapsulation, proteins permeability control, and anticancer drug delivery. Materials Science and Engineering C, 2019, 99, 794-804.	7.3	23

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19	Shape-Selective Electroless Plating within Expanding Template Pores: Etching-Assisted Deposition of Spiky Nickel Nanotube Networks. Langmuir, 2019, 35, 4246-4253.	3.5	15
20	Tailored dendritic platinum nanostructures as a robust and efficient direct formic acid fuel cell anode. New Journal of Chemistry, 2019, 43, 4100-4105.	2.8	10
21	Electroless Synthesis of Highly Stable and Freeâ€Standing Porous Pt Nanotube Networks and their Application in Methanol Oxidation. ChemElectroChem, 2018, 5, 1087-1097.	3.4	14
22	Expanding the boundaries of metal deposition: High aspect ratio silver nanoplatelets created by merging nanobelts. Electrochimica Acta, 2018, 264, 233-243.	5.2	16
23	Metal Nanotube/Nanowire-Based Unsupported Network Electrocatalysts. Catalysts, 2018, 8, 597.	3.5	24
24	Nucleation ontrolled Solution Deposition of Silver Nanoplate Architectures for Facile Derivatization and Catalytic Applications. Advanced Materials, 2018, 30, e1805179.	21.0	23
25	Electrocatalytic applications of platinum-decorated TiO2 nanotubes prepared by a fully wet-chemical synthesis. Journal of Materials Science, 2017, 52, 7754-7767.	3.7	14
26	Free-Standing Networks of Core–Shell Metal and Metal Oxide Nanotubes for Glucose Sensing. ACS Applied Materials & Interfaces, 2017, 9, 771-781.	8.0	41
27	Template-Free Electroless Plating of Gold Nanowires: Direct Surface Functionalization with Shape-Selective Nanostructures for Electrochemical Applications. ACS Applied Materials & Interfaces, 2017, 9, 31142-31152.	8.0	29
28	Carbon nanocasting in ion-track etched polycarbonate membranes. Materials Letters, 2017, 187, 56-59.	2.6	7
29	Nanoparticles as a Metal Source in Plasma Processes. Transactions of the Materials Research Society of Japan, 2017, 42, 31-36.	0.2	0
30	Electroless Plating of Stacked, Single-Crystalline Silver Nanoplatelets and Dendrites. ECS Meeting Abstracts, 2017, , .	0.0	2
31	Funtionalization and Electrocatalytic Application of Electrolessly Deposited Silver Nanoplatelet Films. ECS Meeting Abstracts, 2017, , .	0.0	0
32	Electroless synthesis of cellulose-metal aerogel composites. Applied Physics Letters, 2016, 108, .	3.3	16
33	Electrodeposition and electroless plating of hierarchical metal superstructures composed of 1D nano- and microscale building blocks. Electrochimica Acta, 2016, 202, 47-54.	5.2	30
34	Wet-chemical etching of SrMoO3 thin films. Materials Letters, 2016, 184, 173-176.	2.6	3
35	Templated synthesis of pure and bimetallic gold/platinum nanotubes using complementary seeding and plating reactions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 508, 197-204.	4.7	13
36	NiCo nanotubes plated on Pd seeds as a designed magnetically recollectable catalyst with high noble metal utilisation. RSC Advances, 2016, 6, 70033-70039.	3.6	24

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37	Electroless decoration of macroscale foam with nickel nano-spikes: A scalable route toward efficient catalyst electrodes. Electrochemistry Communications, 2016, 65, 39-43.	4.7	26
38	Use of a nanostructured surface coating to achieve higher sputter rates. Materials Letters, 2016, 164, 532-534.	2.6	3
39	Template-based synthesis of metallic Pd nanotubes by electroless deposition and their use as catalysts in the 4-nitrophenol model reaction. Green Chemistry, 2016, 18, 558-564.	9.0	28
40	Self‣upporting Metal Nanotube Networks Obtained by Highly Conformal Electroless Plating. ChemPlusChem, 2015, 80, 1448-1456.	2.8	18
41	Electroless plating of ultrathin palladium films: self-initiated deposition and application in microreactor fabrication. Materials Research Express, 2015, 2, 105010.	1.6	15
42	Nano- and microstructured silver films synthesised by halide-assisted electroless plating. New Journal of Chemistry, 2015, 39, 6803-6812.	2.8	16
43	Facile wet-chemical synthesis of differently shaped cuprous oxide particles and a thin film: Effect of catalyst morphology on the glucose sensing performance. Sensors and Actuators B: Chemical, 2015, 214, 189-196.	7.8	15
44	Double-Walled Ag – Pt Nanotubes Fabricated by Galvanic Replacement and Dealloying: Effect of Composition on the Methanol Oxidation Activity. Nano, 2015, 10, 1550085.	1.0	13
45	Polycarbonate activation for electroless plating by dimethylaminoborane absorption and subsequent nanoparticle deposition. Applied Physics A: Materials Science and Processing, 2014, 116, 287-294.	2.3	13
46	Platinum nanowires with pronounced texture, controlled crystallite size and excellent growth homogeneity fabricated by optimized pulsed electrodeposition. RSC Advances, 2014, 4, 4804.	3.6	14
47	A comparative study on degradation characteristics of fluoropolymers irradiated by high energy heavy ions. RSC Advances, 2014, 4, 50171-50179.	3.6	15
48	Metal Nanotubes and Nanowires with Rhombohedral Cross-Section Electrolessly Deposited in Mica Templates. Langmuir, 2014, 30, 10878-10885.	3.5	23
49	Fabrication of Single Cylindrical Au-Coated Nanopores with Non-Homogeneous Fixed Charge Distribution Exhibiting High Current Rectifications. ACS Applied Materials & Interfaces, 2014, 6, 12486-12494.	8.0	55
50	Hierarchically porous carbon membranes containing designed nanochannel architectures obtained by pyrolysis of ion-track etched polyimide. Materials Chemistry and Physics, 2014, 148, 846-853.	4.0	11
51	Stable platinum nanostructures on nitrogen-doped carbon obtained by high-temperature synthesis for use in PEMFC. Journal of Applied Electrochemistry, 2014, 44, 573-580.	2.9	6
52	Polymer activation by reducing agent absorption as a flexible tool for the creation of metal films and nanostructures by electroless plating. Surface and Coatings Technology, 2014, 242, 100-108.	4.8	26
53	Green plating of high aspect ratio gold nanotubes and their morphology-dependent performance in enzyme-free peroxide sensing. RSC Advances, 2014, 4, 24504.	3.6	21
54	Electroless synthesis of nanostructured nickel and nickel–boron tubes and their performance as unsupported ethanol electrooxidation catalysts. Journal of Power Sources, 2013, 222, 243-252.	7.8	82

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55	Synthesis of nanoparticle/ligand composite thin films by sequential ligand self assembly and surface complex reduction. Journal of Colloid and Interface Science, 2013, 389, 23-30.	9.4	4
56	Impact of Specifically Adsorbing Anions on the Electroless Growth of Gold Nanotubes. Journal of Nanomaterials, 2012, 2012, 1-10.	2.7	2
57	Thermal stability of electrodeposited platinum nanowires and morphological transformations at elevated temperatures. Nanotechnology, 2012, 23, 475710.	2.6	35
58	Fabrication of porous rhodium nanotube catalysts by electroless plating. Journal of Materials Chemistry, 2012, 22, 12784.	6.7	26
59	Deposition of Nanofilms inside a Polymer Template:Formation of Metal Nanotubes. E-Journal of Surface Science and Nanotechnology, 2012, 10, 578-584.	0.4	10
60	Copper Nanowires, Nanotubes, and Hierarchical Nanopatterns: One-Dimensional Architectures using Ion Track Etched Templates. Transactions of the Materials Research Society of Japan, 2012, 37, 213-218.	0.2	3
61	4-(Dimethylamino)pyridine as a Powerful Auxiliary Reagent in the Electroless Synthesis of Gold Nanotubes. Langmuir, 2011, 27, 430-435.	3.5	36
62	Electroless synthesis of platinum and platinum–ruthenium nanotubes and their application in methanol oxidation. Journal of Materials Chemistry, 2011, 21, 6286.	6.7	35
63	Ligand-optimized electroless synthesis of silver nanotubes and their activity in the reduction of 4-nitrophenol. Nanotechnology, 2011, 22, 415602.	2.6	51
64	Multiple activation of ion track etched polycarbonate for the electroless synthesis of metal nanotubes. Applied Physics A: Materials Science and Processing, 2011, 105, 847-854.	2.3	37