

Anna T L Fischer

List of Publications by Citations

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86
papers

7,093
citations

32
h-index

84
g-index

98
ext. papers

7,759
ext. citations

7.9
avg, IF

5.66
L-index

#	Paper	IF	Citations
86	Graphitic carbon nitride materials: variation of structure and morphology and their use as metal-free catalysts. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4893		2493
85	Chemical synthesis of mesoporous carbon nitrides using hard templates and their use as a metal-free catalyst for Friedel-Crafts reaction of benzene. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 4467-71	16.4	802
84	Electrosynthesis, functional, and structural characterization of a water-oxidizing manganese oxide. <i>Energy and Environmental Science</i> , 2012 , 5, 7081	35.4	369
83	Condensed Graphitic Carbon Nitride Nanorods by Nanoconfinement: Promotion of Crystallinity on Photocatalytic Conversion. <i>Chemistry of Materials</i> , 2011 , 23, 4344-4348	9.6	348
82	Metal-free catalysis of sustainable Friedel-Crafts reactions: direct activation of benzene by carbon nitrides to avoid the use of metal chlorides and halogenated compounds. <i>Chemical Communications</i> , 2006 , 4530-2	5.8	184
81	Formation mechanism of colloidal silver nanoparticles: analogies and differences to the growth of gold nanoparticles. <i>ACS Nano</i> , 2012 , 6, 5791-802	16.7	172
80	Water oxidation by amorphous cobalt-based oxides: volume activity and proton transfer to electrolyte bases. <i>ChemSusChem</i> , 2014 , 7, 1301-10	8.3	155
79	Supported Cobalt Oxide Nanoparticles As Catalyst for Aerobic Oxidation of Alcohols in Liquid Phase. <i>ACS Catalysis</i> , 2011 , 1, 342-347	13.1	154
78	Growth Confined by the Nitrogen Source: Synthesis of Pure Metal Nitride Nanoparticles in Mesoporous Graphitic Carbon Nitride. <i>Advanced Materials</i> , 2007 , 19, 264-267	24	149
77	Synthesis of ternary metal nitride nanoparticles using mesoporous carbon nitride as reactive template. <i>ACS Nano</i> , 2008 , 2, 2489-96	16.7	136
76	Water oxidation by electrodeposited cobalt oxides--role of anions and redox-inert cations in structure and function of the amorphous catalyst. <i>ChemSusChem</i> , 2012 , 5, 542-9	8.3	129
75	Chemische Synthese von mesoporösen Kohlenstoffnitriden in harten Templaten und ihre Anwendung als metallfreie Katalysatoren in Friedel-Crafts-Reaktionen. <i>Angewandte Chemie</i> , 2006 , 118, 4579-4583	3.6	106
74	A sustainable template for mesoporous zeolite synthesis. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2715-8	16.4	103
73	New triblock copolymer templates, PEO-PB-PEO, for the synthesis of titania films with controlled mesopore size, wall thickness, and bimodal porosity. <i>Small</i> , 2012 , 8, 298-309	11	92
72	Generation of Self-Assembled 3D Mesostructured SnO ₂ Thin Films with Highly Crystalline Frameworks. <i>Advanced Functional Materials</i> , 2006 , 16, 1433-1440	15.6	89
71	Mesoporous carbon nitride-tungsten oxide composites for enhanced photocatalytic hydrogen evolution. <i>ChemSusChem</i> , 2015 , 8, 1404-10	8.3	88
70	Mesoporous graphitic carbon nitride as a versatile, metal-free catalyst for the cyclisation of functional nitriles and alkynes. <i>New Journal of Chemistry</i> , 2007 , 31, 1455	3.6	85

69	High-surface-area TiO ₂ and TiN as catalysts for the C-C coupling of alcohols and ketones. <i>ChemSusChem</i> , 2008 , 1, 444-9	8.3	73
68	A molecular approach to self-supported cobalt-substituted ZnO materials as remarkably stable electrocatalysts for water oxidation. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5183-7	16.4	65
67	Magnetic silver hybrid nanoparticles for surface-enhanced resonance Raman spectroscopic detection and decontamination of small toxic molecules. <i>ACS Nano</i> , 2013 , 7, 3212-20	16.7	65
66	Surface nanopatterning by organic/inorganic self-assembly and selective local functionalization. <i>Small</i> , 2006 , 2, 569-74	11	62
65	Sulfur doped reduced graphene oxide as metal-free catalyst for the oxygen reduction reaction in anion and proton exchange fuel cells. <i>Electrochemistry Communications</i> , 2017 , 77, 71-75	5.1	59
64	Structural purity of magnetite nanoparticles in magnetotactic bacteria. <i>Journal of the Royal Society Interface</i> , 2011 , 8, 1011-8	4.1	59
63	Mo-doped BiVO ₄ thin films [high photoelectrochemical water splitting performance achieved by a tailored structure and morphology. <i>Sustainable Energy and Fuels</i> , 2017 , 1, 1830-1846	5.8	57
62	Development of cellular magnetic dipoles in magnetotactic bacteria. <i>Biophysical Journal</i> , 2010 , 99, 1268-73	5.2	52
61	Mechanistic insights into seeded growth processes of gold nanoparticles. <i>Nanoscale</i> , 2010 , 2, 2463-9	7.7	45
60	Synthesis of High-Surface-Area TiN/Carbon Composite Materials with Hierarchical Porosity via Reactive Templating. <i>Chemistry of Materials</i> , 2008 , 20, 7383-7389	9.6	43
59	Functionalized Ag nanoparticles with tunable optical properties for selective protein analysis. <i>Chemical Communications</i> , 2011 , 47, 3553-5	5.8	42
58	Polyformamidine-Derived Non-Noble Metal Electrocatalysts for Efficient Oxygen Reduction Reaction. <i>Advanced Functional Materials</i> , 2018 , 28, 1707551	15.6	39
57	Tridoped Reduced Graphene Oxide as a Metal-Free Catalyst for Oxygen Reduction Reaction Demonstrated in Acidic and Alkaline Polymer Electrolyte Fuel Cells. <i>Advanced Sustainable Systems</i> , 2017 , 1, 1600038	5.9	37
56	A Review on Metal-Free Doped Carbon Materials Used as Oxygen Reduction Catalysts in Solid Electrolyte Proton Exchange Fuel Cells. <i>Fuel Cells</i> , 2016 , 16, 522-529	2.9	35
55	Hydrophobic Nanoreactor Soft-Templating: A Supramolecular Approach to Yolk@Shell Materials. <i>Advanced Functional Materials</i> , 2015 , 25, 6228-6240	15.6	34
54	Insight into the assembly properties and functional organisation of the magnetotactic bacterial actin-like homolog, MamK. <i>PLoS ONE</i> , 2012 , 7, e34189	3.7	31
53	Electrosynthesis of Biomimetic Manganese-Calcium Oxides for Water Oxidation Catalysis--Atomic Structure and Functionality. <i>ChemSusChem</i> , 2016 , 9, 379-87	8.3	31
52	Bioelectrocatalysis at mesoporous antimony doped tin oxide electrodes. Electrochemical characterization and direct enzyme communication. <i>Electrochimica Acta</i> , 2013 , 110, 172-180	6.7	27

51	Enhanced Photoelectrochemical Water Oxidation Performance by Fluorine Incorporation in BiVO and Mo:BiVO Thin Film Photoanodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 16430-16442	9.5	26
50	Dissolution of BiVO ₄ Photoanodes Revealed by Time-Resolved Measurements under Photoelectrochemical Conditions. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 23410-23418	3.8	24
49	Efficient and Stable TiO ₂ :PtAu(In,Ga)Se ₂ Composite Photoelectrodes for Visible Light Driven Hydrogen Evolution. <i>Advanced Energy Materials</i> , 2015 , 5, 1402148	21.8	24
48	Microporous polymer network films covalently bound to gold electrodes. <i>Chemical Communications</i> , 2015 , 51, 4283-6	5.8	24
47	Complementary surface-enhanced resonance Raman spectroscopic biodetection of mixed protein solutions by chitosan- and silica-coated plasmon-tuned silver nanoparticles. <i>Analytical Chemistry</i> , 2012 , 84, 5759-64	7.8	24
46	Synthesis and crystal structure of TaON, a metastable polymorph of tantalum oxide nitride. <i>Inorganic Chemistry</i> , 2014 , 53, 11691-8	5.1	23
45	A Molecular Approach to Self-Supported Cobalt-Substituted ZnO Materials as Remarkably Stable Electrocatalysts for Water Oxidation. <i>Angewandte Chemie</i> , 2014 , 126, 5283-5287	3.6	23
44	Orientation-Controlled Electrocatalytic Efficiency of an Adsorbed Oxygen-Tolerant Hydrogenase. <i>PLoS ONE</i> , 2015 , 10, e0143101	3.7	22
43	Evolution of magnetic anisotropy and thermal stability during nanocrystal-chain growth. <i>Applied Physics Letters</i> , 2011 , 99, 182504	3.4	22
42	Robust electrografted interfaces on metal oxides for electrocatalysis: an in situ spectroelectrochemical study. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15200-15212	13	21
41	Molecular LEGO by domain-imprinting of cytochrome P450 BM3. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 164, 240-246	6	19
40	High electrocatalytic activity of metal-free and non-doped hierarchical carbon nanowalls towards oxygen reduction reaction. <i>Electrochimica Acta</i> , 2018 , 269, 657-667	6.7	19
39	Tailored silica coated Ag nanoparticles for non-invasive surface enhanced Raman spectroscopy of biomolecular targets. <i>RSC Advances</i> , 2012 , 2, 805-808	3.7	18
38	Different Photostability of BiVO in Near-pH-Neutral Electrolytes. <i>ACS Applied Energy Materials</i> , 2020 , 3, 9523-9527	6.1	18
37	In Situ Spectroelectrochemical Studies into the Formation and Stability of Robust Diazonium-Derived Interfaces on Gold Electrodes for the Immobilization of an Oxygen-Tolerant Hydrogenase. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23380-23391	9.5	17
36	High surface hierarchical carbon nanowalls synthesized by plasma deposition using an aromatic precursor. <i>Carbon</i> , 2017 , 118, 578-587	10.4	16
35	A One-Pot Approach to Mesoporous Metal Oxide Ultrathin Film Electrodes Bearing One Metal Nanoparticle per Pore with Enhanced Electrocatalytic Properties. <i>Chemistry of Materials</i> , 2013 , 25, 4645-4652	9.6	16
34	Template-assisted electrostatic spray deposition as a new route to mesoporous, macroporous, and hierarchically porous oxide films. <i>Langmuir</i> , 2011 , 27, 1972-7	4	16

33	Peroxygenase based sensor for aromatic compounds. <i>Biosensors and Bioelectronics</i> , 2010 , 26, 1432-6	11.8	16
32	Graphitic carbon nitride nano-emitters on silicon: a photoelectrochemical heterojunction composed of earth-abundant materials for enhanced evolution of hydrogen. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12697-12702	13	15
31	Electrochemical stability of silica-templated polyaniline-derived mesoporous N-doped carbons for the design of Pt-based oxygen reduction reaction catalysts. <i>Carbon</i> , 2019 , 146, 44-59	10.4	13
30	Bioelectrocatalytic Reduction of Hydrogen Peroxide by Microperoxidase-11 Immobilized on Mesoporous Antimony-Doped Tin Oxide. <i>ChemElectroChem</i> , 2017 , 4, 913-919	4.3	11
29	Yolk@Shell Nanoarchitectures with Bimetallic Nanocores-Synthesis and Electrocatalytic Applications. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 28019-28029	9.5	11
28	In Situ Formed Bn1@InX@In1@SnYOZ@Core@Shell Nanoparticles as Electrocatalysts for CO2 Reduction to Formate. <i>Advanced Functional Materials</i> , 2021 , 31, 2103601	15.6	11
27	Induced surface enhancement in coral Pt island films attached to nanostructured Ag electrodes. <i>Langmuir</i> , 2012 , 28, 5819-25	4	10
26	Synthesis of Pt@TiO nanocomposite electrocatalysts for enhanced methanol oxidation by hydrophobic nanoreactor templating. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 13555-13568	3.6	9
25	Hybrid hierarchical patterns of gold nanoparticles and poly(ethylene glycol) microstructures. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 7709	7.1	9
24	Core-shell effects of functionalized oxide nanoparticles inside long-range meso-ordered spray-dried silica spheres. <i>Journal of Sol-Gel Science and Technology</i> , 2008 , 47, 119-123	2.3	9
23	An Interesting Class of Porous Polymer--Revisiting the Structure of Mesoporous @D-Polysaccharide Gels. <i>ChemSusChem</i> , 2016 , 9, 280-8	8.3	8
22	One pot conversion of glucose to ethyl levulinate over a porous hydrothermal acid catalyst in green solvents.. <i>RSC Advances</i> , 2019 , 9, 20341-20344	3.7	8
21	Investigating the Effect of Microstructure and Surface Functionalization of Mesoporous N-Doped Carbons on V4+/V5+ Kinetics. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11627-11640	6.1	8
20	Selective Alcohol Electrooxidation by ZIF-8 Functionalized Pt/Carbon Catalyst. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 20915-20922	9.5	7
19	Two-step synthesis of Fe2O3 and Co3O4 nanoparticles: towards a general method for synthesizing nanocrystalline metal oxides with high surface area and thermal stability. <i>RSC Advances</i> , 2012 , 2, 121-124	2.7	7
18	The role of synthesis conditions for structural defects and lattice strain in @TaON and their effect on photo- and photoelectrocatalysis. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2019 , 74, 71-83	1	6
17	Dual functionality of formamidine polymers, as ligands and as bases, in ruthenium-catalysed hydrogen evolution from formic acid. <i>Polymer Chemistry</i> , 2013 , 4, 2741	4.9	5
16	Iron-based pre-catalyst supported on polyformamidine for C@ bond formation. <i>Polymer Chemistry</i> , 2012 , 3, 751	4.9	5

15	Functionalising hydrothermal carbons for catalysis Investigating solid acids in esterification reactions. <i>Catalysis Science and Technology</i> , 2020 , 10, 776-787	5.5	5
14	Ultra-Thin Protective Coatings for Sustained Photoelectrochemical Water Oxidation with Mo:BiVO ₄ . <i>Advanced Functional Materials</i> , 2011210	15.6	5
13	Synthesis and Crystal Structure of Rutile-type ScTa ₂ O ₅ N. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014 , 640, 2771-2775	1.3	4
12	Directing nitrogen-doped carbon support chemistry for improved aqueous phase hydrogenation catalysis. <i>Catalysis Science and Technology</i> , 2020 , 10, 4794-4808	5.5	4
11	Fluorination of Ni-Rich Lithium-Ion Battery Cathode Materials by Fluorine Gas: Chemistry, Characterization, and Electrochemical Performance in Full-cells. <i>Batteries and Supercaps</i> , 2021 , 4, 632-645	5.6	4
10	Spruce Hard Carbon Anodes for Lithium-Ion Batteries. <i>ChemElectroChem</i> ,	4.3	4
9	Hydrophobic AlO Surfaces by Adsorption of a SAM on Large Areas for Application in Solar Cell Metallization Patterning. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5803-5813	9.5	3
8	Ethylzinc- and ZincBisfluoroalkoxides. <i>ChemistrySelect</i> , 2017 , 2, 265-273	1.8	2
7	Synthesis and Doping Strategies to Improve the Photoelectrochemical Water Oxidation Activity of BiVO ₄ Photoanodes. <i>Zeitschrift Fur Physikalische Chemie</i> , 2020 , 234, 655-682	3.1	2
6	Bioelectrocatalysis by Microperoxidase-11 in a Multilayer Architecture of Chitosan Embedded Gold Nanoparticles. <i>Electroanalysis</i> , 2011 , 23, n/a-n/a	3	1
5	Bimetallic Mn, Fe, Co, and Ni Sites in a Four-Helix Bundle Protein: Metal Binding, Structure, and Peroxide Activation. <i>Inorganic Chemistry</i> , 2021 , 60, 17498-17508	5.1	1
4	High-Efficiency Monolithic Photosupercapacitors: Smart Integration of a Perovskite Solar Cell with a Mesoporous Carbon Double-Layer Capacitor. <i>Solar Rrl</i> , 2021 , 5, 2100662	7.1	1
3	Electrografted Interfaces on Metal Oxide Electrodes for Enzyme Immobilization and Bioelectrocatalysis. <i>ChemElectroChem</i> , 2021 , 8, 1329-1336	4.3	0
2	Rapid wet-chemical oxidative activation of graphite felt electrodes for vanadium redox flow batteries.. <i>RSC Advances</i> , 2021 , 11, 32095-32105	3.7	0
1	The Structure of a Water-oxidizing Cobalt Oxide Film and Comparison to the Photosynthetic Manganese Complex. <i>Advanced Topics in Science and Technology in China</i> , 2013 , 257-261	0.2	