# Annette-Enrica Surkus

## List of Publications by Citations



| 46 | 3,767 | 27 | 53 |
|---|---|---|---|
| papers | citations | h-index | g-index |
| 53 | 4,291 | 9.1 | 5.09 |
| ext. papers | ext. citations | avg, IF | L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 46 | Nanoscale Fe2O3-based catalysts for selective hydrogenation of nitroarenes to anilines. *Science*, **2013**, 342, 1073-6 | 33.3 | 704 |
| 45 | Heterogenized cobalt oxide catalysts for nitroarene reduction by pyrolysis of molecularly defined complexes. *Nature Chemistry*, **2013**, 5, 537-43 | 17.6 | 513 |
| 44 | Synthesis and Characterization of Iron-Nitrogen-Doped Graphene/Core-Shell Catalysts: Efficient Oxidative Dehydrogenation of N-Heterocycles. *Journal of the American Chemical Society*, **2015**, 137, 10652-8 | 16.4 | 223 |
| 43 | Photocatalytic water reduction with copper-based photosensitizers: a noble-metal-free system. *Angewandte Chemie - International Edition*, **2013**, 52, 419-23 | 16.4 | 208 |
| 42 | Efficient and highly selective iron-catalyzed reduction of nitroarenes. *Chemical Communications*, **2011**, 47, 10972-4 | 5.8 | 179 |
| 41 | Selective Catalytic Hydrogenation of Heteroarenes with N-Graphene-Modified Cobalt Nanoparticles (Co3O4-Co/NGr@Al2O3). *Journal of the American Chemical Society*, **2015**, 137, 11718-24 | 16.4 | 176 |
| 40 | Light-driven hydrogen generation: efficient iron-based water reduction catalysts. *Angewandte Chemie - International Edition*, **2009**, 48, 9962-5 | 16.4 | 169 |
| 39 | A noble-metal-free system for photocatalytic hydrogen production from water. *Chemistry - A European Journal*, **2013**, 19, 15972-8 | 4.8 | 131 |
| 38 | Highly selective hydrogenation of arenes using nanostructured ruthenium catalysts modified with a carbon-nitrogen matrix. *Nature Communications*, **2016**, 7, 11326 | 17.4 | 124 |
| 37 | Hydrogenation using iron oxide-based nanocatalysts for the synthesis of amines. *Nature Protocols*, **2015**, 10, 548-57 | 18.8 | 106 |
| 36 | Stable and Inert Cobalt Catalysts for Highly Selective and Practical Hydrogenation of C?N and C?O Bonds. *Journal of the American Chemical Society*, **2016**, 138, 8781-8 | 16.4 | 99 |
| 35 | Cobalt-based nanocatalysts for green oxidation and hydrogenation processes. *Nature Protocols*, **2015**, 10, 916-26 | 18.8 | 96 |
| 34 | A Stable Nanocobalt Catalyst with Highly Dispersed CoN Active Sites for the Selective Dehydrogenation of Formic Acid. *Angewandte Chemie - International Edition*, **2017**, 56, 16616-16620 | 16.4 | 87 |
| 33 | Selective Semihydrogenation of Alkynes with N-Graphitic-Modified Cobalt Nanoparticles Supported on Silica. *ACS Catalysis*, **2017**, 7, 1526-1532 | 13.1 | 84 |
| 32 | General and selective reductive amination of carbonyl compounds using a core–shell structured Co3O4/NGr@C catalyst. *Green Chemistry*, **2014**, 16, 4535-4540 | 10 | 83 |
| 31 | A convenient and general ruthenium-catalyzed transfer hydrogenation of nitro- and azobenzenes. *Chemistry - A European Journal*, **2011**, 17, 14375-9 | 4.8 | 67 |
| 30 | Cobalt Single-Atom Catalysts with High Stability for Selective Dehydrogenation of Formic Acid. *Angewandte Chemie - International Edition*, **2020**, 59, 15849-15854 | 16.4 | 65 |

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| 29 | A Biomass-Derived Non-Noble Cobalt Catalyst for Selective Hydrodehalogenation of Alkyl and (Hetero)Aryl Halides. *Angewandte Chemie - International Edition*, **2017**, 56, 11242-11247 | 16.4 | 64 |
| 28 | Photocatalytic Water Reduction with Copper-Based Photosensitizers: A Noble-Metal-Free System. *Angewandte Chemie*, **2013**, 125, 437-441 | 3.6 | 58 |
| 27 | Synthesis of Amines by Reductive Amination of Aldehydes and Ketones using Co3O4/NGr@C Catalyst. *ChemCatChem*, **2015**, 7, 62-64 | 5.2 | 56 |
| 26 | Co-based heterogeneous catalysts from well-defined diimine complexes: Discussing the role of nitrogen. *Journal of Catalysis*, **2017**, 351, 79-89 | 7.3 | 52 |
| 25 | Synthesis of Nickel Nanoparticles with N-Doped Graphene Shells for Catalytic Reduction Reactions. *ChemCatChem*, **2016**, 8, 129-134 | 5.2 | 52 |
| 24 | Eisencarbonyle: effiziente Katalysatoren für die lichtgetriebene Wasserstofferzeugung aus Wasser. *Angewandte Chemie*, **2009**, 121, 10147-10150 | 3.6 | 47 |
| 23 | Electron- and Energy-Transfer Processes in a Photocatalytic System Based on an Ir(III)-Photosensitizer and an Iron Catalyst. *Journal of Physical Chemistry Letters*, **2014**, 5, 1355-60 | 6.4 | 40 |
| 22 | General and Chemoselective Copper Oxide Catalysts for Hydrogenation Reactions. *ACS Catalysis*, **2019**, 9, 4302-4307 | 13.1 | 32 |
| 21 | Electrochemical Detection of DNA Melting Curves by Means of Heated Biosensors. *Electroanalysis*, **2009**, 21, 1119-1123 | 3 | 31 |
| 20 | A Stable Nanocobalt Catalyst with Highly Dispersed CoNx Active Sites for the Selective Dehydrogenation of Formic Acid. *Angewandte Chemie*, **2017**, 129, 16843-16847 | 3.6 | 27 |
| 19 | Synthesis of cobalt nanoparticles by pyrolysis of vitamin B12: a non-noble-metal catalyst for efficient hydrogenation of nitriles. *Catalysis Science and Technology*, **2018**, 8, 499-507 | 5.5 | 25 |
| 18 | Direct electrochemistry of horseradish peroxidase immobilized in a chitosan-[C4mim][BF4] film: determination of electrode kinetic parameters. *Bioelectrochemistry*, **2008**, 74, 183-7 | 5.6 | 23 |
| 17 | A Biomass-Derived Non-Noble Cobalt Catalyst for Selective Hydrodehalogenation of Alkyl and (Hetero)Aryl Halides. *Angewandte Chemie*, **2017**, 129, 11394-11399 | 3.6 | 18 |
| 16 | 1-(Arylalkenyl)pyrenes Synthetic, Structural, Photophysical, Theoretical, and Electrochemical Investigations. *European Journal of Organic Chemistry*, **2011**, 2011, 5261-5271 | 3.2 | 18 |
| 15 | Hybridization detection of enzyme-labeled DNA at electrically heated electrodes. *Analytical and Bioanalytical Chemistry*, **2013**, 405, 3907-11 | 4.4 | 17 |
| 14 | Zinc single atoms on N-doped carbon: An efficient and stable catalyst for CO2 fixation and conversion. *Chinese Journal of Catalysis*, **2019**, 40, 1679-1685 | 11.3 | 15 |
| 13 | Kinetics of the labeling reactions of thymine, cytosine and uracil with osmium tetroxide bipyridine. *Mikrochimica Acta*, **2009**, 166, 197-201 | 5.8 | 15 |
| 12 | Straightforward synthesis of tetraalkynylpyrazines and their photophysical properties. *Organic and Biomolecular Chemistry*, **2016**, 14, 1442-9 | 3.9 | 9 |

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| 11 | Impact of the Co : Cu Ratio in CoCu-Containing Oxidic Solids on their Activity for the Water-Splitting Reaction. *ChemElectroChem*, **2017**, 4, 2109-2116 | 4.3 | 7 |
| 10 | From the Precursor to the Active State: Monitoring Metamorphosis of Electrocatalysts During Water Oxidation by In Situ Spectroscopy. *ChemElectroChem*, **2017**, 4, 2117-2122 | 4.3 | 7 |
| 9 | Cobalt Single-Atom Catalysts with High Stability for Selective Dehydrogenation of Formic Acid. *Angewandte Chemie*, **2020**, 132, 15983-15988 | 3.6 | 6 |
| 8 | Control of Bridging Ligands in [(V2O3)2(RXO3)4?F]□Cage Complexes: A Unique Way To Tune Their Chemical Properties. *Organometallics*, **2014**, 33, 4905-4910 | 3.8 | 6 |
| 7 | Pyrimidopteridine N-Oxide Organic Photoredox Catalysts: Characterization, Application and Non-Covalent Interaction in Solid State. *Chemistry - A European Journal*, **2019**, 25, 4325-4329 | 4.8 | 5 |
| 6 | Scalable and selective deuteration of (hetero)arenes.. *Nature Chemistry*, **2022**, | 17.6 | 5 |
| 5 | Enhanced photocatalytic performance of polymeric carbon nitride through combination of iron loading and hydrogen peroxide treatment. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2020**, 589, 124383 | 5.1 | 4 |
| 4 | Synthesis of furo[3,2-b:4,5-b']diindoles and their optical and electrochemical properties. *Organic and Biomolecular Chemistry*, **2018**, 16, 6543-6551 | 3.9 | 3 |
| 3 | Highly Scalable Conversion of Blood Protoporphyrin to Efficient Electrocatalyst for CO2-to-CO Conversion. *Advanced Materials Interfaces*, **2021**, 8, 2100067 | 4.6 | 2 |
| 2 | Palladium-catalyzed synthesis and fluorescence study of 2,3-diaryl-5-ethynylbenzo[ e ]indoles. *Tetrahedron*, **2017**, 73, 3407-3414 | 2.4 | 0 |
| 1 | Photophysical and Electrochemical Properties of Pyrimidopteridine-Based Organic Photoredox Catalysts. *ChemPhotoChem*, | 3.3 | 0 |