

John Watt

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6229956/john-watt-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

43
papers

1,762
citations

19
h-index

41
g-index

50
ext. papers

2,125
ext. citations

12.6
avg, IF

4.72
L-index

#	Paper	IF	Citations
43	Cesium Lead Halide Perovskite Nanocrystals Assembled in Metal-Organic Frameworks for Stable Blue Light Emitting Diodes.. <i>Advanced Science</i> , 2022 , e2105850	13.6	1
42	Review of Multifunctional Separators: Stabilizing the Cathode and the Anode for Alkali (Li, Na, and K) Metal-Sulfur and Selenium Batteries.. <i>Chemical Reviews</i> , 2022 ,	68.1	13
41	A single-Pt-atom-on-Ru-nanoparticle electrocatalyst for CO-resilient methanol oxidation. <i>Nature Catalysis</i> , 2022 , 5, 231-237	36.5	8
40	Multifunctional Separator Allows Stable Cycling of Potassium Metal Anodes and of Potassium Metal Batteries. <i>Advanced Materials</i> , 2021 , e2105855	24	11
39	Investigation of Phase Transformations in Ge ₄ Sb ₄ Te ₅ film using Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2021 , 27, 1240-1242	0.5	
38	In-situ Electron Microscopy to Inform Superior Magnetic Nanocomposites. <i>Microscopy and Microanalysis</i> , 2020 , 26, 2554-2555	0.5	
37	Facettierte verzweigte Nickel-Nanopartikel mit variierbarer Verzweigungslänge für die hochaktive elektrokatalytische Oxidation von Biomasse. <i>Angewandte Chemie</i> , 2020 , 132, 15615-15620	3.6	13
36	A Synthetic Hydrogel Composite with the Mechanical Behavior and Durability of Cartilage. <i>Advanced Functional Materials</i> , 2020 , 30, 2003451	15.6	55
35	Controlling Pt Crystal Defects on the Surface of NiPt CoreShell Nanoparticles for Active and Stable Electrocatalysts for Oxygen Reduction. <i>ACS Applied Nano Materials</i> , 2020 , 3, 5995-6000	5.6	7
34	Dendrite-Free Potassium Metal Anodes in a Carbonate Electrolyte. <i>Advanced Materials</i> , 2020 , 32, e1906735	23.5	67
33	In situ TEM study of crystallization and chemical changes in an oxidized uncapped Ge ₂ Sb ₂ Te ₅ film. <i>Journal of Applied Physics</i> , 2020 , 128, 124505	2.5	4
32	Stable Potassium Metal Anodes with an All-Aluminum Current Collector through Improved Electrolyte Wetting. <i>Advanced Materials</i> , 2020 , 32, e2002908	24	27
31	Faceted Branched Nickel Nanoparticles with Tunable Branch Length for High-Activity Electrocatalytic Oxidation of Biomass. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15487-15491	16.4	41
30	Role of Interface Chemistry in Opening New Radiative Pathways in InP/CdSe Giant Quantum Dots with Blinking-Suppressed Two-Color Emission. <i>Advanced Functional Materials</i> , 2019 , 29, 1809111	15.6	7
29	Formation of Branched Ruthenium Nanoparticles for Improved Electrocatalysis of Oxygen Evolution Reaction. <i>Small</i> , 2019 , 15, e1804577	11	33
28	Improved Crystalline Structure and Enhanced Photoluminescence of ZnO Nanolayers in Bi ₂ Se ₃ /ZnO Heterostructures. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 31156-31166	3.8	5
27	Soft matter and nanomaterials characterization by cryogenic transmission electron microscopy. <i>MRS Bulletin</i> , 2019 , 44, 942-948	3.2	6

26	Reversible Magnetic Agglomeration: A Mechanism for Thermodynamic Control over Nanoparticle Size. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7678-7681	16.4	13
25	Reversible Magnetic Agglomeration: A Mechanism for Thermodynamic Control over Nanoparticle Size. <i>Angewandte Chemie</i> , 2018 , 130, 7804-7807	3.6	4
24	Formation of Metal Nanoparticles Directly from Bulk Sources Using Ultrasound and Application to E-Waste Upcycling. <i>Small</i> , 2018 , 14, e1703615	11	5
23	Magnetic Nanocomposites and Their Incorporation into Higher Order Biosynthetic Functional Architectures. <i>ACS Omega</i> , 2018 , 3, 503-508	3.9	3
22	Ultrasonication: Formation of Metal Nanoparticles Directly from Bulk Sources Using Ultrasound and Application to E-Waste Upcycling (Small 17/2018). <i>Small</i> , 2018 , 14, 1870078	11	0
21	Titelbild: Reversible Magnetic Agglomeration: A Mechanism for Thermodynamic Control over Nanoparticle Size (Angew. Chem. 26/2018). <i>Angewandte Chemie</i> , 2018 , 130, 7657-7657	3.6	
20	Finite element modeling of nanoscale-enabled microinductors for power electronics. <i>Journal of Materials Research</i> , 2018 , 33, 2223-2233	2.5	4
19	Gram scale synthesis of Fe/Fe _x O _y core-shell nanoparticles and their incorporation into matrix-free superparamagnetic nanocomposites. <i>Journal of Materials Research</i> , 2018 , 33, 2156-2167	2.5	5
18	Efficient conversion of lignin into a water-soluble polymer by a chelator-mediated Fenton reaction: optimization of H ₂ O ₂ use and performance as a dispersant. <i>Green Chemistry</i> , 2018 , 20, 3024-3037	10	28
17	Magnetically Recoverable Pd/Fe O Core-Shell Nanowire Clusters with Increased Hydrogenation Activity. <i>ChemPlusChem</i> , 2017 , 82, 347-351	2.8	7
16	Non-volatile iron carbonyls as versatile precursors for the synthesis of iron-containing nanoparticles. <i>Nanoscale</i> , 2017 , 9, 6632-6637	7.7	19
15	Enhanced Nanoparticle Size Control by Extending LaMer Mechanism. <i>Chemistry of Materials</i> , 2015 , 27, 6059-6066	9.6	158
14	Effect of Seed Age on Gold Nanorod Formation: A Microfluidic, Real-Time Investigation. <i>Chemistry of Materials</i> , 2015 , 27, 6442-6449	9.6	25
13	Gold over Branched Palladium Nanostructures for Photothermal Cancer Therapy. <i>ACS Nano</i> , 2015 , 9, 12283-91	16.7	86
12	Au-Pd core-shell nanoparticles as alcohol oxidation catalysts: effect of shape and composition. <i>ChemSusChem</i> , 2013 , 6, 1858-62	8.3	19
11	Gold-Palladium Core-Shell Nanocrystals with Size and Shape Control Optimized for Catalytic Performance. <i>Angewandte Chemie</i> , 2013 , 125, 1517-1520	3.6	26
10	Gold-palladium core-shell nanocrystals with size and shape control optimized for catalytic performance. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 1477-80	16.4	98
9	Can polymorphism be used to form branched metal nanostructures?. <i>Advanced Materials</i> , 2013 , 25, 1552-4	2.6	62

8	How to control the shape of metal nanostructures in organic solution phase synthesis for plasmonics and catalysis. <i>Nano Today</i> , 2013 , 8, 198-215	17.9	83
7	Shape control from thermodynamic growth conditions: the case of hcp ruthenium hourglass nanocrystals. <i>Journal of the American Chemical Society</i> , 2013 , 135, 606-9	16.4	62
6	Ostwald's Rule of Stages and its role in CdSe quantum dot crystallization. <i>Journal of the American Chemical Society</i> , 2012 , 134, 17046-52	16.4	35
5	Shape control of platinum and palladium nanoparticles for catalysis. <i>Nanoscale</i> , 2010 , 2, 2045-53	7.7	272
4	Ultrafast growth of highly branched palladium nanostructures for catalysis. <i>ACS Nano</i> , 2010 , 4, 396-402	16.7	183
3	Synthesis and Structural Characterization of Branched Palladium Nanostructures. <i>Advanced Materials</i> , 2009 , 21, 2288-2293	24	115
2	In situ and ex situ studies of platinum nanocrystals: growth and evolution in solution. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14590-5	16.4	151
1	CHAPTER 12. Copper-based Multinary Materials for Solar Cells. <i>RSC Nanoscience and Nanotechnology</i> , 393-435		