

Anna Klinkova

List of Publications by Year in descending order

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45
papers

3,768
citations

304743

22
h-index

276875

41
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48
all docs

48
docs citations

48
times ranked

6699
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced electrocatalytic CO ₂ reduction via field-induced reagent concentration. <i>Nature</i> , 2016, 537, 382-386.	27.8	1,429
2	Rational Design of Efficient Palladium Catalysts for Electroreduction of Carbon Dioxide to Formate. <i>ACS Catalysis</i> , 2016, 6, 8115-8120.	11.2	277
3	Self-assembled plasmonic nanostructures. <i>Chemical Society Reviews</i> , 2014, 43, 3976.	38.1	276
4	Surface patterning of nanoparticles with polymer patches. <i>Nature</i> , 2016, 538, 79-83.	27.8	257
5	The Role of Hole Localization in Sacrificial Hydrogen Production by Semiconductor-Metal Heterostructured Nanocrystals. <i>Nano Letters</i> , 2011, 11, 2919-2926.	9.1	187
6	Suppression of the Plasmon Resonance in Au/CdS Colloidal Nanocomposites. <i>Nano Letters</i> , 2011, 11, 1792-1799.	9.1	173
7	Colloidal cholesteric liquid crystal in spherical confinement. <i>Nature Communications</i> , 2016, 7, 12520.	12.8	157
8	Circular Dichroism of Chiral Nematic Films of Cellulose Nanocrystals Loaded with Plasmonic Nanoparticles. <i>ACS Nano</i> , 2015, 9, 10377-10385.	14.6	111
9	Structural Transitions in Nanoparticle Assemblies Governed by Competing Nanoscale Forces. <i>Journal of the American Chemical Society</i> , 2013, 135, 10262-10265.	13.7	100
10	Structural and Optical Properties of Self-Assembled Chains of Plasmonic Nanocubes. <i>Nano Letters</i> , 2014, 14, 6314-6321.	9.1	92
11	Interplay of electrochemical and electrical effects induces structural transformations in electrocatalysts. <i>Nature Catalysis</i> , 2021, 4, 479-487.	34.4	68
12	Colloidal analogs of molecular chain stoppers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18775-18779.	7.1	67
13	Enhanced electrocatalytic performance of palladium nanoparticles with high energy surfaces in formic acid oxidation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11582-11585.	10.3	58
14	Sustainable at both ends: electrochemical CO ₂ utilization paired with electrochemical treatment of nitrogenous waste. <i>Green Chemistry</i> , 2020, 22, 4456-4462.	9.0	55
15	Large-Scale Synthesis of Metal Nanocrystals in Aqueous Suspensions. <i>Chemistry of Materials</i> , 2016, 28, 3196-3202.	6.7	37
16	Shaken, and stirred: oscillatory segmented flow for controlled size-evolution of colloidal nanomaterials. <i>Lab on A Chip</i> , 2014, 14, 2309-2318.	6.0	34
17	Shape-Dependent Interactions of Palladium Nanocrystals with Hydrogen. <i>Small</i> , 2016, 12, 2450-2458.	10.0	34
18	Electrochemical CO ₂ Fixation to \pm -Methylbenzyl Bromide in Divided Cells with Nonsacrificial Anodes and Aqueous Anolytes. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 19631-19639.	6.7	33

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19	Heteroepitaxial Growth of Colloidal Nanocrystals onto Substrate Films via Hot-Injection Routes. ACS Nano, 2011, 5, 4953-4964.	14.6	32
20	Inductive effects in cobalt-doped nickel hydroxide electronic structure facilitating urea electrooxidation. Chemosphere, 2021, 279, 130550.	8.2	30
21	Pathways of ammonia electrooxidation on nickel hydroxide anodes and an alternative route towards recycled fertilizers. Green Chemistry, 2022, 24, 1578-1589.	9.0	28
22	Linear assembly of patchy and non-patchy nanoparticles. Faraday Discussions, 2016, 191, 189-204.	3.2	26
23	Domino [4 + 1]-annulation of $\hat{1},\hat{1}^2$ -unsaturated $\hat{1}$ -amino esters with Rh($\langle scp \rangle ii \langle /scp \rangle$) $\hat{1}$ "carbenoids" $\hat{1}$ a new approach towards multi-functionalized N-aryl pyrrolidines. Organic and Biomolecular Chemistry, 2015, 13, 2640-2651.	2.8	22
24	Mechanism of ammonia oxidation to dinitrogen, nitrite, and nitrate on $\hat{1}^2\hat{1}$ -Ni(OH) $\langle sub \rangle 2 \langle /sub \rangle$ from first $\hat{1}$ principles simulations. Electrochemical Science Advances, 2022, 2, 2100142.	2.8	21
25	Energy Transport in CsPbBr $\langle sub \rangle 3 \langle /sub \rangle$ Perovskite Nanocrystal Solids. ACS Photonics, 2020, 7, 154-164.	6.6	19
26	Self $\hat{1}$ Assembly and Surface Patterning of Polyferrocenylsilane $\hat{1}$ Functionalized Gold Nanoparticles. Macromolecular Rapid Communications, 2018, 39, 1700554.	3.9	16
27	Pd $\hat{1}$ CNT $\hat{1}$ SiO $\langle sub \rangle 2 \langle /sub \rangle$ nanoskein: composite structure design for formic acid dehydrogenation. Chemical Communications, 2019, 55, 10733-10736.	4.1	14
28	Reductive and Coordinative Effects of Hydrazine in Structural Transformations of Copper Hydroxide Nanoparticles. Nanomaterials, 2019, 9, 1445.	4.1	14
29	Translating Tactics from Direct CO $\langle sub \rangle 2 \langle /sub \rangle$ Electroreduction to Electroorganic Coupling Reactions with CO $\langle sub \rangle 2 \langle /sub \rangle$. Advanced Energy and Sustainability Research, 2021, 2, 2100001.	5.8	13
30	An aligned octahedral core in a nanocage: synthesis, plasmonic, and catalytic properties. Nanoscale, 2019, 11, 3138-3144.	5.6	12
31	Numerical investigation of delamination onset and propagation in catalyst layers of PEM fuel cells under hygrothermal cycles. International Journal of Hydrogen Energy, 2021, 46, 11071-11083.	7.1	12
32	Relative activity of metal cathodes towards electroorganic coupling of CO $\langle sub \rangle 2 \langle /sub \rangle$ with benzylic halides. Electrochimica Acta, 2021, 387, 138528.	5.2	10
33	Hands-on Electrochemical Reduction of CO $\langle sub \rangle 2 \langle /sub \rangle$: Understanding Electrochemical Principles through Active Learning. Journal of Chemical Education, 2022, 99, 1036-1043.	2.3	10
34	Multiphoton induced photoluminescence during time-resolved laser-induced incandescence experiments on silver and gold nanoparticles. Journal of Applied Physics, 2021, 129, .	2.5	8
35	Toward rational design of palladium nanoparticles with plasmonically enhanced catalytic performance. RSC Advances, 2016, 6, 47907-47911.	3.6	7
36	Cu($\langle scp \rangle ii \langle /scp \rangle$)-nanoparticle-derived structures under CO $\langle sub \rangle 2 \langle /sub \rangle$ reduction conditions: a matter of shape. Physical Chemistry Chemical Physics, 2019, 21, 5894-5897.	2.8	7

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37	Shape control in seed-mediated synthesis of non-elongated Cu nanoparticles and their optical properties. <i>Nanoscale</i> , 2021, 13, 12505-12512.	5.6	7
38	Synthesis of Dimeric Molecules via Ag-Catalyzed Electrochemical Homocoupling of Organic Bromides Paired with Electrooxidation of Urea. <i>Journal of the Electrochemical Society</i> , 2020, 167, 155521.	2.9	6
39	Low-Frequency Oscillations in Optical Measurements of Metal-Nanoparticle Vibrations. <i>Nano Letters</i> , 2022, 22, 5365-5371.	9.1	5
40	Trapping a Photoelectron behind a Repulsive Coulomb Barrier in Solution. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5742-5747.	4.6	2
41	Interparticle gap geometry effects on chiroptical properties of plasmonic nanoparticle assemblies. <i>Nanotechnology</i> , 2022, 33, 125203.	2.6	1
42	INVESTIGATING NON-INCANDESCENCE EMISSION DURING LASER INDUCED INCANDESCENCE EXPERIMENTS ON AEROSOLIZED PLASMONIC NANOPARTICLES. , 2019, , .		0
43	On the Performance and Structural Stability of Cathodic Electrocatalysts with Complex Nanoscale Morphology. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2709-2709.	0.0	0
44	Coupling of Various Aqueous Anodic Reactions with Direct and Indirect Electroreduction of CO ₂ in Organic Media. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 2641-2641.	0.0	0
45	Designing Hot Spots in Plasmonic Assemblies through the Shape and Arrangement of Constituents. , 2022, , 301-350.		0