

Dongdong Xu

List of Publications by Year in descending order

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3,491
citations

126907

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138484

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docs citations

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times ranked

3991
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#	ARTICLE	IF	CITATIONS
1	Ru Modulation Effects in the Synthesis of Unique Rod-like Ni@Ni ₂ S ₃ /Ru Heterostructures and Their Remarkable Electrocatalytic Hydrogen Evolution Performance. <i>Journal of the American Chemical Society</i> , 2018, 140, 2731-2734.	13.7	326
2	2D Electron Gas and Oxygen Vacancy Induced High Oxygen Evolution Performances for Advanced Co ₃ O ₄ /CeO ₂ Nanohybrids. <i>Advanced Materials</i> , 2019, 31, e1900062.	21.0	242
3	π-π interaction of aromatic groups in amphiphilic molecules directing for single-crystalline mesostructured zeolite nanosheets. <i>Nature Communications</i> , 2014, 5, 4262.	12.8	223
4	Defect-Rich Ni ₃ FeN Nanocrystals Anchored on N-Doped Graphene for Enhanced Electrocatalytic Oxygen Evolution. <i>Advanced Functional Materials</i> , 2018, 28, 1706018.	14.9	169
5	Ultrathin PdAg single-crystalline nanowires enhance ethanol oxidation electrocatalysis. <i>Applied Catalysis B: Environmental</i> , 2019, 249, 116-125.	20.2	135
6	Ultrathin PdPt bimetallic nanowires with enhanced electrocatalytic performance for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2018, 238, 525-532.	20.2	111
7	Cobalt Phosphides Nanocrystals Encapsulated by N-Doped Carbon and Married with N-Doped Graphene for Overall Water Splitting. <i>Small</i> , 2019, 15, e1804546.	10.0	110
8	Multimetallic Hollow Mesoporous Nanospheres with Synergistically Structural and Compositional Effects for Highly Efficient Ethanol Electrooxidation. <i>ACS Central Science</i> , 2018, 4, 1412-1419.	11.3	109
9	Ternary Palladium-Boron-Phosphorus Alloy Mesoporous Nanospheres for Highly Efficient Electrocatalysis. <i>ACS Nano</i> , 2019, 13, 12052-12061.	14.6	108
10	Coralloid Co ₂ P ₂ O ₇ Nanocrystals Encapsulated by Thin Carbon Shells for Enhanced Electrochemical Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22534-22544.	8.0	91
11	Ultrathin palladium nanosheets with selectively controlled surface facets. <i>Chemical Science</i> , 2018, 9, 4451-4455.	7.4	89
12	Size-dependent synthesis and catalytic activities of trimetallic PdAgCu mesoporous nanospheres in ethanol electrooxidation. <i>Chemical Science</i> , 2019, 10, 1986-1993.	7.4	79
13	Asymmetric Multimetallic Mesoporous Nanospheres. <i>Nano Letters</i> , 2019, 19, 3379-3385.	9.1	76
14	Encapsulation of Metal Nanoparticle Catalysts Within Mesoporous Zeolites and Their Enhanced Catalytic Performances: A Review. <i>Frontiers in Chemistry</i> , 2018, 6, 550.	3.6	74
15	Synergistically enhanced oxygen reduction electrocatalysis by atomically dispersed and nanoscaled Co species in three-dimensional mesoporous Co, N-codoped carbon nanosheets network. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118207.	20.2	74
16	When ternary PdCuP alloys meet ultrathin nanowires: Synergic boosting of catalytic performance in ethanol electrooxidation. <i>Applied Catalysis B: Environmental</i> , 2019, 253, 271-277.	20.2	70
17	One-pot aqueous synthesis of ultrathin trimetallic PdPtCu nanosheets for the electrooxidation of alcohols. <i>Green Chemistry</i> , 2019, 21, 2367-2374.	9.0	68
18	A Hierarchical MFI Zeolite with a Two-Dimensional Square Mesostructure. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 724-728.	13.8	67

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19	Promoting Effect of Heterostructured NiO/Ni on Pt Nanocatalysts toward Catalytic Hydrolysis of Ammonia Borane. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7374-7382.	4.6	65
20	An insight into the role of the surfactant CTAB in the formation of microporous molecular sieves. <i>Dalton Transactions</i> , 2014, 43, 3612-3617.	3.3	64
21	Component-Controlled Synthesis of Necklace-Like Hollow Ni _x Ru _y Nanoalloys as Electrocatalysts for Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 17326-17336.	8.0	60
22	A Hierarchical MFI Zeolite with a Two-Dimensional Square Mesostructure. <i>Angewandte Chemie</i> , 2018, 130, 732-736.	2.0	57
23	3D Porous Nanoarchitectures Derived from SnS-Doped Graphene Hybrid Nanosheets for Flexible All-Solid-State Supercapacitors. <i>Small</i> , 2017, 13, 1603494.	10.0	55
24	Phase-Modulation of Iron/Nickel Phosphides Nanocrystals Armored with Porous Doped Carbon and Anchored on Doped Graphene Nanohybrids for Enhanced Overall Water Splitting. <i>Advanced Functional Materials</i> , 2021, 31, 2010912.	14.9	54
25	Mesoporous palladium-boron alloy nanospheres. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24877-24883.	10.3	52
26	Ternary metal-metalloid-nonmetal alloy nanowires: a novel electrocatalyst for highly efficient ethanol oxidation electrocatalysis. <i>Science Bulletin</i> , 2020, 65, 1823-1831.	9.0	50
27	Crystalline Facet-Directed Generation Engineering of Ultrathin Platinum Nanodendrites. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 663-671.	4.6	49
28	Novel surfactant-directed synthesis of ultra-thin palladium nanosheets as efficient electrocatalysts for glycerol oxidation. <i>Chemical Communications</i> , 2017, 53, 1642-1645.	4.1	47
29	One-step fabrication of trimetallic core-shell Au@PdAuCu mesoporous nanospheres for ethanol electrooxidation. <i>Green Chemistry</i> , 2019, 21, 2043-2051.	9.0	46
30	Mesoporous gold nanospheres via thiolate-Au(^{sc}) intermediates. <i>Chemical Science</i> , 2019, 10, 6423-6430.	7.4	45
31	Unveiling Synergistic Effects of Interstitial Boron in Palladium-Based Nanocatalysts for Ethanol Oxidation Electrocatalysis. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6632-6639.	4.6	41
32	Insights into Compositional and Structural Effects of Bimetallic Hollow Mesoporous Nanospheres toward Ethanol Oxidation Electrocatalysis. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 5490-5498.	4.6	38
33	Synthesis and Crystal-Phase Engineering of Mesoporous Palladium-Boron Alloy Nanoparticles. <i>ACS Central Science</i> , 2020, 6, 2347-2353.	11.3	36
34	Surface Engineering and Controlled Ripening for Seed-Mediated Growth of Au Islands on Au Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16958-16964.	13.8	35
35	Highly branched ultrathin Pt-Ru nanodendrites. <i>Chemical Communications</i> , 2019, 55, 11131-11134.	4.1	31
36	Facile synthesis of ultrathin single-crystalline palladium nanowires with enhanced electrocatalytic activities. <i>Chemical Communications</i> , 2016, 52, 12996-12999.	4.1	30

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37	Ultrasml Ru Nanoclusters on Nitrogen-Enriched Hierarchically Porous Carbon Support as Remarkably Active Catalysts for Hydrolysis of Ammonia Borane. <i>ChemCatChem</i> , 2018, 10, 4910-4916.	3.7	30
38	Reversible Transformation between CsPbBr ₃ Perovskite Nanowires and Nanorods with Polarized Optoelectronic Properties. <i>Advanced Functional Materials</i> , 2021, 31, 2011251.	14.9	29
39	Surfactant Design Strategy for One-Pot Seedless Synthesis of Hollow Mesoporous AuAg Alloy Nanospheres. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5777-5784.	4.6	28
40	Hierarchically Hollow and Porous NiO/NiCo ₂ O ₄ Nanoprisms Encapsulated in Graphene Oxide for Lithium Storage. <i>Langmuir</i> , 2020, 36, 9668-9674.	3.5	27
41	A sequential template strategy toward hierarchical hetero-metal phosphide hollow nanoboxes for electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3482-3491.	10.3	26
42	Engineering bimetal Cu, Co sites on 3D N-doped porous carbon nanosheets for enhanced oxygen reduction electrocatalysis. <i>Chemical Communications</i> , 2020, 56, 10010-10013.	4.1	25
43	Highly branched and defect-rich PdP nanosheets for ethanol oxidation electrocatalysis. <i>Chemical Communications</i> , 2020, 56, 15667-15670.	4.1	25
44	Asymmetric PdPtCu mesoporous hemispheres on nitrogen-functionalized graphene for methanol oxidation electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15706-15714.	10.3	22
45	Engineering high-entropy alloy nanowires network for alcohol electrooxidation. <i>Journal of Colloid and Interface Science</i> , 2022, 625, 1012-1021.	9.4	22
46	Ultrathin and Wavy PdB Alloy Nanowires with Controlled Surface Defects for Enhanced Ethanol Oxidation Electrocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17599-17607.	8.0	21
47	Well-Coupled Nanohybrids Obtained by Component-Controlled Synthesis and in Situ Integration of Mn _x Pd _y Nanocrystals on Vulcan Carbon for Electrocatalytic Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 8155-8164.	8.0	20
48	Engineering porous architectures in multicomponent PdCuBP mesoporous nanospheres for electrocatalytic ethanol oxidation. <i>Nano Research</i> , 2021, 14, 3274-3281.	10.4	19
49	A design concept of amphiphilic molecules for directing hierarchical porous zeolite. <i>New Journal of Chemistry</i> , 2016, 40, 3982-3992.	2.8	16
50	A universal strategy for fast, scalable, and aqueous synthesis of multicomponent palladium alloy ultrathin nanowires. <i>Science China Chemistry</i> , 2021, 64, 245-252.	8.2	16
51	Versatile Synthesis of Pd ⁿ M (M=Cr, Mo, W) Alloy Nanosheets Flower-like Superstructures for Efficient Oxygen Reduction Electrocatalysis. <i>ChemCatChem</i> , 2020, 12, 4138-4148.	3.7	14
52	Plasmonic mesoporous AuAg nanospheres with controllable nanostructures. <i>Chemical Communications</i> , 2020, 56, 9679-9682.	4.1	14
53	Template-Assisted Self-Sulfuration Formation of MoS ₂ Nanosheets Embedded in Ordered Mesoporous Carbon for Lithium Storage. <i>ACS Applied Energy Materials</i> , 2019, 2, 6158-6162.	5.1	12
54	Rapid Aqueous Synthesis of Large-Size and Edge/Defect-Rich Porous Pd and Pd-Alloyed Nanomesh for Electrocatalytic Ethanol Oxidation. <i>Chemistry - A European Journal</i> , 2021, 27, 11175-11182.	3.3	12

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55	“Dual-Template”-Directed Synthesis of Bowl-Shaped Mesoporous Platinum Nanostructures. <i>Inorganic Chemistry</i> , 2019, 58, 11195-11201.	4.0	11
56	Highly Efficient Dehydrogenation of Formic Acid over Binary Palladium–Phosphorous Alloy Nanoclusters on N-Doped Carbon. <i>Inorganic Chemistry</i> , 2021, 60, 10707-10714.	4.0	6
57	Ultrathin RhCuAgPd/Pd nanowire heterostructures for ethylene glycol electrooxidation. <i>Chemical Communications</i> , 2022, 58, 7773-7776.	4.1	5
58	Formation of Lamellar Mesostructured Crystalline Silica by Self-assembly of CTAB. <i>Chemical Research in Chinese Universities</i> , 2019, 35, 359-362.	2.6	4
59	Overall Water Splitting: Cobalt Phosphides Nanocrystals Encapsulated by P-Doped Carbon and Married with P-Doped Graphene for Overall Water Splitting (Small 10/2019). <i>Small</i> , 2019, 15, 1970052.	10.0	4
60	Engineering PdIr Nanostructures Synergistically Induced by Self-Assembled Surfactants and Halide Ions for Alcohol Electrooxidation. <i>Chemistry - A European Journal</i> , 2022, 28, .	3.3	4
61	One-step synthesis of hollow-like porous palladium sphere with enhanced electrocatalytic performance. <i>Materials Letters</i> , 2016, 185, 468-471.	2.6	3
62	Supercapacitors: 3D Porous Nanoarchitectures Derived from SnS/S-Doped Graphene Hybrid Nanosheets for Flexible All-Solid-State Supercapacitors (Small 12/2017). <i>Small</i> , 2017, 13, .	10.0	0