

# Li-Rong Zheng

## List of Publications by Year in Descending Order

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

791  
papers

34,550  
citations

93  
h-index

165  
g-index

914  
ext. papers

46,396  
ext. citations

9.2  
avg, IF

7.77  
L-index

#	Paper	IF	Citations
791	Alcohols electrooxidation coupled with H <sub>2</sub> production at high current densities promoted by a cooperative catalyst.. <i>Nature Communications</i> , <b>2022</b> , 13, 147	17.4	13
790	Bioinspired Five-Coordinated Single-Atom Iron Nanozyme for Tumor Catalytic Therapy.. <i>Advanced Materials</i> , <b>2022</b> , e2107088	24	20
789	Anchoring Ionic Liquid in Copper Electrocatalyst for Improving CO <sub>2</sub> Conversion to Ethylene.. <i>Angewandte Chemie - International Edition</i> , <b>2022</b> ,	16.4	3
788	Efficient Role of Nanosheet-Like PrO Induced Surface-Interface Synergistic Structures over Cu-Based Catalysts for Enhanced Methanol Production from CO Hydrogenation.. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2022</b> , 14, 2768-2781	9.5	1
787	Edge-based Collaborative Training System for Artificial Intelligence-of-Things. <i>IEEE Transactions on Industrial Informatics</i> , <b>2022</b> , 1-1	11.9	0
786	Self-Adaptive Single-Atom Catalyst Boosting Selective Ferroptosis in Tumor Cells.. <i>ACS Nano</i> , <b>2022</b> ,	16.7	10
785	Studies of a Highly Active Cobalt Atomic Cluster Catalyst for Ammonia Synthesis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2022</b> , 10, 1951-1960	8.3	1
784	Selective catalytic oxidation of ammonia to nitric oxide via chemical looping.. <i>Nature Communications</i> , <b>2022</b> , 13, 718	17.4	2
783	Optimization of the Coupling Coefficient of the Inductive Link for Wireless Power Transfer to Biomedical Implants. <i>International Journal of Antennas and Propagation</i> , <b>2022</b> , 2022, 1-12	1.2	2
782	Bioavailability and methylation of bulk mercury sulfide in paddy soils: New insights into mercury risks in rice paddies. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 424, 127394	12.8	1
781	Different mechanisms of improving CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite solar cells brought by fluorinated or nitrogen doped graphdiyne. <i>Nano Research</i> , <b>2022</b> , 15, 573	10	3
780	A Hybrid-Mode On-Chip Router for the Large-Scale FPGA-Based Neuromorphic Platform. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2022</b> , 1-12	3.9	0
779	Spatial porosity design of Fe <sub>3</sub> O <sub>4</sub> catalysts for high power density PEM fuel cells and detection of water saturation of the catalyst layer by a microwave method. <i>Journal of Materials Chemistry A</i> , <b>2022</b> , 10, 7764-7772	13	4
778	Oxygen vacancy content drives self-reduction and anti-thermal quenching. <i>Journal of Materials Chemistry C</i> , <b>2022</b> , 10, 4317-4326	7.1	0
777	Few-Shot Network Intrusion Detection Using Discriminative Representation Learning with Supervised Autoencoder. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 2351	2.6	2
776	Al Dopants Induced Mg Vacancies Stabilizing Single-Atom Cu Catalyst for Efficient Free-Radical Hydrophosphinylation of Alkenes.. <i>Journal of the American Chemical Society</i> , <b>2022</b> ,	16.4	4
775	Single-Atom Fe Catalysts for Fenton-Like Reactions: Roles of Different N Species.. <i>Advanced Materials</i> , <b>2022</b> , e2110653	24	18

774	Facilitating Reversible Cation Migration and Suppressing O Escape for High Performance Li-Rich Oxide Cathodes.. <i>Small</i> , <b>2022</b> , e2201014	11	2
773	Encapsulating atomic molybdenum into hierarchical nitrogen-doped carbon nanoboxes for efficient oxygen reduction.. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 620, 67-76	9.3	2
772	Spectroscopic investigations and density functional theory calculations reveal differences in retention mechanisms of lead and copper on chemically-modified phytolith-rich biochars.. <i>Chemosphere</i> , <b>2022</b> , 134590	8.4	0
771	Backpropagation With Sparsity Regularization for Spiking Neural Network Learning.. <i>Frontiers in Neuroscience</i> , <b>2022</b> , 16, 760298	5.1	2
770	3.4% Solar-to-Ammonia Efficiency from Nitrate Using Fe Single Atomic Catalyst Supported on MoS <sub>2</sub> Nanosheets (Adv. Funct. Mater. 18/2022). <i>Advanced Functional Materials</i> , <b>2022</b> , 32, 2270106	15.6	0
769	Cognitive workload evaluation of landmarks and routes using virtual reality.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0268399	3.99	0
768	Fast and Robust Spectrum Sensing for Cognitive Radio Enabled IoT. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	0
767	Decreasing the coordinated N atoms in a single-atom Cu catalyst to achieve selective transfer hydrogenation of alkynes. <i>Chemical Science</i> , <b>2021</b> , 12, 14599-14605	9.4	4
766	IECA: An In-Execution Configuration CNN Accelerator With 30.55 GOPS/mm <sup>2</sup> Area Efficiency. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2021</b> , 68, 4672-4685	3.9	7
765	In-situ spectroscopic observation of dynamic-coupling oxygen on atomically dispersed iridium electrocatalyst for acidic water oxidation. <i>Nature Communications</i> , <b>2021</b> , 12, 6118	17.4	18
764	Green Synthesis of a Highly Efficient and Stable Single-Atom Iron Catalyst Anchored on Nitrogen-Doped Carbon Nanorods for the Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 137-146	8.3	9
763	Peroxo Species Formed in the Bulk of Silicate Cathodes. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 10144-10151	3.6	0
762	Peroxo Species Formed in the Bulk of Silicate Cathodes. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 10056-10063	16.4	4
761	Selectively Upgrading Lignin Derivatives to Carboxylates through Electrochemical Oxidative C(OH)-C Bond Cleavage by a Mn-Doped Cobalt Oxyhydroxide Catalyst. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 9058-9064	3.6	8
760	Tuning Co Coordination in Cobalt Layered Double Hydroxide Nanosheets via Fe Doping for Efficient Oxygen Evolution. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 5252-5263	5.1	15
759	Construction of Spatial Effect from Atomically Dispersed Co Anchoring on Subnanometer Ru Cluster for Enhanced N <sub>2</sub> -to-NH <sub>3</sub> Conversion. <i>ACS Catalysis</i> , <b>2021</b> , 11, 4430-4440	13.1	9
758	Selectively Upgrading Lignin Derivatives to Carboxylates through Electrochemical Oxidative C(OH)-C Bond Cleavage by a Mn-Doped Cobalt Oxyhydroxide Catalyst. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 8976-8982	16.4	25
757	FeC-Assisted Single Atomic Fe Sites for Sensitive Electrochemical Biosensing. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 5334-5342	7.8	12

756	Solvent coordination engineering for high-quality hybrid organic-inorganic perovskite films. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 9903-9913	4.3	1
755	Highly Active Heterogeneous Catalyst for Ethylene Dimerization Prepared by Selectively Doping Ni on the Surface of a Zeolitic Imidazolate Framework. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 7144-7153	16.4	15
754	Innentitelbild: Peroxo Species Formed in the Bulk of Silicate Cathodes (Angew. Chem. 18/2021). <i>Angewandte Chemie</i> , <b>2021</b> , 133, 9814-9814	3.6	
753	Neutral Zn-Air Battery Assembled with Single-Atom Iridium Catalysts for Sensitive Self-Powered Sensing System. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2101193	15.6	9
752	An IoT-Based Anti-Counterfeiting System Using Visual Features on QR Code. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 6789-6799	10.7	1
751	Subsurface-Regulated PtGa Nanoparticles Confined in Silicalite-1 for Propane Dehydrogenation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 16259-16266	9.5	11
750	Magnetic-Field-Stimulated Efficient Photocatalytic N <sub>2</sub> Fixation over Defective BaTiO <sub>3</sub> Perovskites. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 12017-12025	3.6	5
749	Rücktitelbild: Magnetic-Field-Stimulated Efficient Photocatalytic N <sub>2</sub> Fixation over Defective BaTiO <sub>3</sub> Perovskites (Angew. Chem. 21/2021). <i>Angewandte Chemie</i> , <b>2021</b> , 133, 12252-12252	3.6	
748	Magnetic-Field-Stimulated Efficient Photocatalytic N Fixation over Defective BaTiO Perovskites. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 11910-11918	16.4	33
747	Boosting CO Electroreduction via the Synergistic Effect of Tuning Cationic Clusters and Visible-Light Irradiation. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101886	24	6
746	An IoT-Based Traceability Platform for Wind Turbines. <i>Energies</i> , <b>2021</b> , 14, 2676	3.1	
745	Interface-Promoted Direct Oxidation of -Arsanic Acid and Removal of Total Arsenic by the Coupling of Peroxymonosulfate and Mn-Fe-Mixed Oxide. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 7063-7071	10.3	8
744	Ternary nickel-tungsten-copper alloy rivals platinum for catalyzing alkaline hydrogen oxidation. <i>Nature Communications</i> , <b>2021</b> , 12, 2686	17.4	20
743	Tuning fermi level and band gap in Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> by doping and vacancy for ultrafast Li <sup>+</sup> insertion/extraction. <i>Journal of the American Ceramic Society</i> , <b>2021</b> , 104, 5934-5945	3.8	2
742	A Memristor Model with Concise Window Function for Spiking Brain-Inspired Computation <b>2021</b> ,		1
741	Defect-Induced Self-Reduction and Anti-Thermal Quenching in NaZn(PO <sub>3</sub> ) <sub>3</sub> :Mn <sup>2+</sup> Red Phosphor. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2100870	8.1	15
740	Graph-Based Spatio-Temporal Backpropagation for Training Spiking Neural Networks <b>2021</b> ,		1
739	Synthesis of a Boron-Imidazolate Framework Nanosheet with Dimer Copper Units for CO Electroreduction to Ethylene. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 16687-16692	16.4	21

738	Synthesis of a Boron-Imidazolite Framework Nanosheet with Dimer Copper Units for CO <sub>2</sub> Electroreduction to Ethylene. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 16823-16828	3.6	2
737	Regulating the electronic structure of NiFe layered double hydroxide/reduced graphene oxide by Mn incorporation for high-efficiency oxygen evolution reaction. <i>Science China Materials</i> , <b>2021</b> , 64, 2729-2738	7.1	10
736	Atomically Dispersed Pt-NC Sites Enabling Efficient and Selective Electrocatalytic C-C Bond Cleavage in Lignin Models under Ambient Conditions. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 9429-9439	16.4	43
735	Direct Observation of Metal Oxide Nanoparticles Being Transformed into Metal Single Atoms with Oxygen-Coordinated Structure and High-Loadings. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 15248-15253	16.4	9
734	Direct Observation of Metal Oxide Nanoparticles Being Transformed into Metal Single Atoms with Oxygen-Coordinated Structure and High-Loadings. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 15376-15381	3.6	0
733	A Memory-Efficient CNN Accelerator Using Segmented Logarithmic Quantization and Multi-Cluster Architecture. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 68, 2142-2146	3.5	4
732	Modulating Oxygen Reduction Behaviors on Nickel Single-Atom Catalysts to Probe the Electrochemiluminescence Mechanism at the Atomic Level. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 8663-8670	7.8	8
731	An Ultra-Low Latency Multicast Router for Large-Scale Multi-Chip Neuromorphic Processing <b>2021</b> ,		1
730	Defect-Engineered Nanozyme-Linked Receptors. <i>Small</i> , <b>2021</b> , 17, e2101907	11	11
729	PdBi Single-Atom Alloy Aerogels for Efficient Ethanol Oxidation. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2103465	15.6	20
728	Modulating Coordination Environment of Single-Atom Catalysts and Their Proximity to Photosensitive Units for Boosting MOF Photocatalysis. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 12220-12229	16.4	58
727	Two-Dimensional-Plasmon-Boosted Iron Single-Atom Electrochemiluminescence for the Ultrasensitive Detection of Dopamine, Hemin, and Mercury. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 9949-9957	7.8	10
726	DisSAGD: A Distributed Parameter Update Scheme Based on Variance Reduction. <i>Sensors</i> , <b>2021</b> , 21,	3.8	1
725	An Adjacent Atomic Platinum Site Enables Single-Atom Iron with High Oxygen Reduction Reaction Performance. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 19262-19271	16.4	81
724	Self-assembled iron-containing mordenite monolith for carbon dioxide sieving. <i>Science</i> , <b>2021</b> , 373, 315-320	33.3	45
723	A Wearable Hand Rehabilitation System With Soft Gloves. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 943-952	11.9	28
722	Operando X-ray spectroscopy visualizing the chameleon-like structural reconstruction on an oxygen evolution electrocatalyst. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 906-915	35.4	37
721	Enhancing CO Electrocatalysis on 2D Porphyrin-Based Metal-Organic Framework Nanosheets Coupled with Visible-Light.. <i>Small Methods</i> , <b>2021</b> , 5, e2000991	12.8	24

7 <sup>20</sup>	Unraveling the real active sites of an amorphous silica/alumina-supported nickel catalyst for highly efficient ethylene oligomerization. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 1510-1518	5.5	7
7 <sup>19</sup>	Porous Fe <sub>2</sub> O <sub>3</sub> nanoparticle decorated with atomically dispersed platinum: Study on atomic site structural change and gas sensor activity evolution. <i>Nano Research</i> , <b>2021</b> , 14, 1435-1442	10	17
7 <sup>18</sup>	A blockchain-based architecture for secure and trustworthy operations in the industrial Internet of Things. <i>Journal of Industrial Information Integration</i> , <b>2021</b> , 21, 100190	7	24
7 <sup>17</sup>	Electric Field and Transmitting Power Analysis of Segmented and Unsegmented Loop Antennas for Transcutaneous Power Transfer. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2021</b> , 69, 3485-3492	4.9	1
7 <sup>16</sup>	A Nonoxide Catalyst System Study: Alkali Metal-Promoted Pt/AC Catalyst for Formaldehyde Oxidation at Ambient Temperature. <i>ACS Catalysis</i> , <b>2021</b> , 11, 456-465	13.1	18
7 <sup>15</sup>	An End to End Recognition for License Plates Using Convolutional Neural Networks. <i>IEEE Intelligent Transportation Systems Magazine</i> , <b>2021</b> , 13, 177-188	2.6	1
7 <sup>14</sup>	Highly efficient ammonia synthesis at low temperature over a Ru-Co catalyst with dual atomically dispersed active centers. <i>Chemical Science</i> , <b>2021</b> , 12, 7125-7137	9.4	12
7 <sup>13</sup>	Biomimetic caged platinum catalyst for hydrosilylation reaction with high site selectivity. <i>Nature Communications</i> , <b>2021</b> , 12, 64	17.4	7
7 <sup>12</sup>	Direct synthesis of 1T-phase MoS <sub>2</sub> nanosheets with abundant sulfur-vacancies through (CH <sub>3</sub> ) <sub>4</sub> N <sup>+</sup> cation-intercalation for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 13996-14005	13.4	15
7 <sup>11</sup>	A rational design of an efficient counter electrode with the Co/Co <sub>1</sub> P <sub>1</sub> N <sub>3</sub> atomic interface for promoting catalytic performance. <i>Materials Chemistry Frontiers</i> , <b>2021</b> , 5, 3085-3092	7.8	5
7 <sup>10</sup>	N-Induced Electron Transfer Effect on Low-Temperature Activation of Nitrogen for Ammonia Synthesis over Co-Based Catalysts. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 1529-1539	8.3	7
7 <sup>09</sup>	Quasi-double-star nickel and iron active sites for high-efficiency carbon dioxide electroreduction. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 4847-4857	35.4	6
7 <sup>08</sup>	Coordinately unsaturated O <sub>2</sub> adsorption sites promote the reactivity of Pt/TiO <sub>2</sub> catalysts in the solvent-free oxidation of n-octanol. <i>Catalysis Science and Technology</i> , <b>2021</b> , 11, 4898-4910	5.5	4
7 <sup>07</sup>	Air atmospheric photocatalytic oxidation by ultrathin C,N-TiO <sub>2</sub> nanosheets. <i>Green Chemistry</i> , <b>2021</b> , 23, 1165-1170	10	5
7 <sup>06</sup>	Strain Engineering of a MXene/CNT Hierarchical Porous Hollow Microsphere Electrocatalyst for a High-Efficiency Lithium Polysulfide Conversion Process. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 2401-2408	3.6	7
7 <sup>05</sup>	The study of surface species and structures of oxide-derived copper catalysts for electrochemical CO reduction. <i>Chemical Science</i> , <b>2021</b> , 12, 5938-5943	9.4	7
7 <sup>04</sup>	An Evidence-Based Intelligent Method for Upper-Limb Motor Assessment via a VR Training System on Stroke Rehabilitation. <i>IEEE Access</i> , <b>2021</b> , 9, 65871-65881	3.5	3
7 <sup>03</sup>	Innentitelbild: Strain Engineering of a MXene/CNT Hierarchical Porous Hollow Microsphere Electrocatalyst for a High-Efficiency Lithium Polysulfide Conversion Process (Angew. Chem. 5/2021). <i>Angewandte Chemie</i> , <b>2021</b> , 133, 2198-2198	3.6	

702	Monomeric vanadium oxide: a very efficient species for promoting aerobic oxidative dehydrogenation of N-heterocycles. <i>New Journal of Chemistry</i> , <b>2021</b> , 45, 431-437	3.6	0
701	Atomically Dispersed Fe Heteroatom (N, S) Bridge Sites Anchored on Carbon Nanosheets for Promoting Oxygen Reduction Reaction. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 379-386	20.1	49
700	Mitigating the P2D2 transition and Na+/vacancy ordering in Na <sub>2</sub> /3Ni <sub>1</sub> /3Mn <sub>2</sub> /3O <sub>2</sub> by anion/cation dual-doping for fast and stable Na <sup>+</sup> insertion/extraction. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 10803-10819	13.1	19
699	A novel Fe/N/C electrocatalyst prepared from a carbon-supported iron(ii) complex of macrocyclic ligands for oxygen reduction reaction.. <i>RSC Advances</i> , <b>2021</b> , 11, 8437-8443	3.7	1
698	Identifying the Activity Origin of a Cobalt Single-Atom Catalyst for Hydrogen Evolution Using Supervised Learning. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100547	15.6	33
697	Notched-Polyoxometalate Strategy to Fabricate Atomically Dispersed Ru Catalysts for Biomass Conversion. <i>ACS Catalysis</i> , <b>2021</b> , 11, 2669-2675	13.1	13
696	Single-Atom-Based Heterojunction Coupling with Ion-Exchange Reaction for Sensitive Photoelectrochemical Immunoassay. <i>Nano Letters</i> , <b>2021</b> , 21, 1879-1887	11.5	31
695	An IoT-Based Life Cycle Assessment Platform of Wind Turbines. <i>Sensors</i> , <b>2021</b> , 21,	3.8	6
694	Construction of Dual-Active-Site Copper Catalyst Containing both Cu <sup>2+</sup> N and Cu <sup>+</sup> N Sites. <i>Small</i> , <b>2021</b> , 17, e2006834	11	14
693	Ultrastable FeCo Bifunctional Electrocatalyst on Se-Doped CNTs for Liquid and Flexible All-Solid-State Rechargeable Zn-Air Batteries. <i>Nano Letters</i> , <b>2021</b> , 21, 2255-2264	11.5	38
692	Oxygen Reduction Reaction: Mn <sup>2+</sup> N <sub>4</sub> Oxygen Reduction Electrocatalyst: Operando Investigation of Active Sites and High Performance in Zinc-Air Battery (Adv. Energy Mater. 6/2021). <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2170025	21.8	
691	Highly Efficient NO Abatement over Cu-ZSM-5 with Special Nanosheet Features. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 5422-5434	10.3	14
690	Sustainable production of benzene from lignin. <i>Nature Communications</i> , <b>2021</b> , 12, 4534	17.4	19
689	Competitive Coordination of Chloride and Fluoride Anions Towards Trivalent Lanthanide Cations (La and Nd) in Molten Salts. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 11721-11729	4.8	0
688	Two Types of Single-Atom FeN <sub>4</sub> and FeN <sub>5</sub> Electrocatalytic Active Centers on N-Doped Carbon Driving High Performance of the SA-Fe-NC Oxygen Reduction Reaction Catalyst. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 5542-5554	9.6	10
687	An Adjacent Atomic Platinum Site Enables Single-Atom Iron with High Oxygen Reduction Reaction Performance. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 19411-19420	3.6	11
686	Quasi-Paired Pt Atomic Sites on Mo C Promoting Selective Four-Electron Oxygen Reduction. <i>Advanced Science</i> , <b>2021</b> , 8, e2101344	13.6	10
685	Electrocatalytic upcycling of polyethylene terephthalate to commodity chemicals and H <sub>2</sub> fuel. <i>Nature Communications</i> , <b>2021</b> , 12, 4679	17.4	41

684	Cooperative Effects between Ni-Mo Alloy Sites and Defective Structures over Hierarchical Ni-Mo Bimetallic Catalysts Enable the Enhanced Hydrodeoxygenation Activity. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 11604-11615	8.3	3
683	Black Phosphorus@TiCT MXene Composites with Engineered Chemical Bonds for Commercial-Level Capacitive Energy Storage. <i>ACS Nano</i> , <b>2021</b> ,	16.7	17
682	Hydrogen Passivation of M-N-C (M = Fe, Co) Catalysts for Storage Stability and ORR Activity Improvements. <i>Advanced Materials</i> , <b>2021</b> , 33, e2103600	24	22
681	Ultrathin PdAuBiTe Nanosheets as High-Performance Oxygen Reduction Catalysts for a Direct Methanol Fuel Cell Device. <i>Advanced Materials</i> , <b>2021</b> , 33, e2103383	24	13
680	Highly Efficient CO <sub>2</sub> Electroreduction to Methanol through Atomically Dispersed Sn Coupled with Defective CuO Catalysts. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 22150-22158	3.6	0
679	Highly Efficient CO Electroreduction to Methanol through Atomically Dispersed Sn Coupled with Defective CuO Catalysts. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 21979-21987	16.4	16
678	Application of X-Ray Absorption Spectroscopy in Electrocatalytic Water Splitting and CO <sub>2</sub> Reduction. <i>Small Science</i> , <b>2021</b> , 1, 2100023		4
677	Lewis Acid Site-Promoted Single-Atomic Cu Catalyzes Electrochemical CO Methanation. <i>Nano Letters</i> , <b>2021</b> , 21, 7325-7331	11.5	38
676	Synergy of Oxygen-Deficient LaFeO <sub>3</sub> and N-Doped Reduced Graphene Oxide in Oxygen Reduction Reaction in Alkaline Solutions. <i>ACS Applied Energy Materials</i> , <b>2021</b> , 4, 8745-8754	6.1	0
675	Enabling on-device classification of ECG with compressed learning for health IoT. <i>Microelectronics Journal</i> , <b>2021</b> , 115, 105188	1.8	1
674	Atomically Dispersed Ruthenium on Nickel Hydroxide Ultrathin Nanoribbons for Highly Efficient Hydrogen Evolution Reaction in Alkaline Media. <i>Advanced Materials</i> , <b>2021</b> , 33, e2104764	24	10
673	Covalent interfacial coupling of vanadium nitride with nitrogen-rich carbon textile boosting its lithium storage performance as binder-free anode. <i>Nano Research</i> , <b>2021</b> , 14, 4336	10	2
672	Fe-N-C Single-Atom Catalyst Coupling with Pt Clusters Boosts Peroxidase-like Activity for Cascade-Amplified Colorimetric Immunoassay. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 12353-12359	7.8	7
671	Hydrogen Passivation of M-N-C (M = Fe, Co) Catalysts for Storage Stability and ORR Activity Improvements (Adv. Mater. 38/2021). <i>Advanced Materials</i> , <b>2021</b> , 33, 2170300	24	2
670	Axial Ligand-Engineered Single-Atom Catalysts with Boosted Enzyme-Like Activity for Sensitive Immunoassay. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 12758-12766	7.8	6
669	High-Performance Binary MoNi Catalysts for Efficient Carbon Removal during Carbon Dioxide Reforming of Methane. <i>ACS Catalysis</i> , <b>2021</b> , 11, 12087-12095	13.1	8
668	Self-aware distributed deep learning framework for heterogeneous IoT edge devices. <i>Future Generation Computer Systems</i> , <b>2021</b> , 125, 908-920	7.5	4
667	Copper single-atom catalysts with photothermal performance and enhanced nanozyme activity for bacteria-infected wound therapy. <i>Bioactive Materials</i> , <b>2021</b> , 6, 4389-4401	16.7	45



666	Integration of single Co atoms and Ru nanoclusters boosts the cathodic performance of nitrogen-doped 3D graphene in lithium-oxygen batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 10747-10757	13	13
665	Propelling polysulfide redox conversion by d-band modulation for high sulfur loading and low temperature lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , <b>2021</b> , 9, 18526-18536	13	8
664	Photocatalytic carbon dioxide reduction coupled with benzylamine oxidation over Zn-Bi <sub>2</sub> WO <sub>6</sub> microflowers. <i>Green Chemistry</i> , <b>2021</b> , 23, 2913-2917	10	5
663	Flexible and Stretchable Dry Active Electrodes with PDMS and Silver Flakes for Bio-potentials Sensing Systems. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1	4	3
662	A Design of Smart Unmanned Vending Machine for New Retail Based on Binocular Camera and Machine Vision. <i>IEEE Consumer Electronics Magazine</i> , <b>2021</b> , 1-1	3.2	2
661	Constructing single Cu <sup>+</sup> sites for CO <sub>2</sub> electrochemical reduction over a wide potential range. <i>Green Chemistry</i> , <b>2021</b> , 23, 5461-5466	10	5
660	Simultaneous oxidative and reductive reactions in one system by atomic design. <i>Nature Catalysis</i> , <b>2021</b> , 4, 134-143	36.5	40
659	N-Bridged Co <sup>II</sup> /Ni: new bimetallic sites for promoting electrochemical CO <sub>2</sub> reduction. <i>Energy and Environmental Science</i> , <b>2021</b> , 14, 3019-3028	35.4	38
658	Strain Engineering of a MXene/CNT Hierarchical Porous Hollow Microsphere Electrocatalyst for a High-Efficiency Lithium Polysulfide Conversion Process. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 2371-2378	16.4	78
657	Mn <sup>2+</sup> /N <sub>4</sub> Oxygen Reduction Electrocatalyst: Operando Investigation of Active Sites and High Performance in Zinc-Air Battery. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2002753	21.8	34
656	Bioactive Metal-Organic Frameworks with Specific Metal-Nitrogen (M-N) Active Sites for Efficient Sonodynamic Tumor Therapy. <i>ACS Nano</i> , <b>2021</b> ,	16.7	7
655	A FPGA-based Hardware Accelerator for Bayesian Confidence Propagation Neural Network <b>2020</b> ,		1
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652	Silica nanoparticles alleviate mercury toxicity via immobilization and inactivation of Hg(II) in soybean (Glycine max). <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 1807-1817	7.1	24
651	Removing the barrier to water dissociation on single-atom Pt sites decorated with a CoP mesoporous nanosheet array to achieve improved hydrogen evolution. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11246-11254	13	22
650	Coordination structure dominated performance of single-atomic Pt catalyst for anti-Markovnikov hydroboration of alkenes. <i>Science China Materials</i> , <b>2020</b> , 63, 972-981	7.1	62
649	Single Atoms Anchored on Cobalt-Based Catalysts Derived from Hydrogels Containing Phthalocyanine toward the Oxygen Reduction Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2020</b> , 8, 8338-8347	8.3	7

648	NiMn-Cl Layered Double Hydroxide/Carbon Nanotube Networks for High-Performance Chloride Ion Batteries. <i>ACS Applied Energy Materials</i> , <b>2020</b> , 3, 4559-4568	6.1	11
647	Carbon black-supported FM <sub>1</sub> (FM = Fe, Co, and Ni) single-atom catalysts synthesized by the self-catalysis of oxygen-coordinated ferrous metal atoms. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 13166-13172	13.6	12
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645	Iridium single-atom catalyst on nitrogen-doped carbon for formic acid oxidation synthesized using a general host-guest strategy. <i>Nature Chemistry</i> , <b>2020</b> , 12, 764-772	17.6	207
644	Highly Efficient Electroreduction of CO <sub>2</sub> to C <sub>2</sub> + Alcohols on Heterogeneous Dual Active Sites. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 16601	3.6	2
643	Engineering unsymmetrically coordinated Cu-SN single atom sites with enhanced oxygen reduction activity. <i>Nature Communications</i> , <b>2020</b> , 11, 3049	17.4	210
642	Creation of CuO <sub>x</sub> /ZSM-5 zeolite complex: healing defect sites and boosting acidic stability and catalytic activity. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 4981-4989	5.5	1
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640	Engineering Isolated Mn-NC Atomic Interface Sites for Efficient Bifunctional Oxygen Reduction and Evolution Reaction. <i>Nano Letters</i> , <b>2020</b> , 20, 5443-5450	11.5	135
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620	Detection range extended 2D Ruddlesden-Popper perovskite photodetectors. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 3359-3366	7.1	11
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618	An Enzyme-Mimicking Single-Atom Catalyst as an Efficient Multiple Reactive Oxygen and Nitrogen Species Scavenger for Sepsis Management. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 5146-5153	3.6	12
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616	Sequential Synthesis and Active-Site Coordination Principle of Precious Metal Single-Atom Catalysts for Oxygen Reduction Reaction and PEM Fuel Cells. <i>Advanced Energy Materials</i> , <b>2020</b> , 10, 2000689	21.8	55
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571	. <i>IEEE Access</i> , <b>2020</b> , 8, 147728-147737	3.5	10
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543	Coordination mode engineering in stacked-nanosheet metal-organic frameworks to enhance catalytic reactivity and structural robustness. <i>Nature Communications</i> , <b>2019</b> , 10, 2779	17.4	52
542	Optimization of the Cell Structure for Radiation-Hardened Power MOSFETs. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 598	2.6	5
541	Discovery of a new intercalation-type anode for high-performance sodium ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 15371-15377	13	12

540	Activating Layered Double Hydroxide with Multivacancies by Memory Effect for Energy-Efficient Hydrogen Production at Neutral pH. <i>ACS Energy Letters</i> , <b>2019</b> , 4, 1412-1418	20.1	64
539	Defect Engineering in Two Common Types of Dielectric Materials for Electromagnetic Absorption Applications. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901236	15.6	285
538	Metal Ionic Liquids Produce Metal-Dispersed Carbon-Nitrogen Networks for Efficient CO <sub>2</sub> Electroreduction. <i>ChemCatChem</i> , <b>2019</b> , 11, 3166-3170	5.2	3
537	Coexistence of self-reduction from Mn <sup>4+</sup> to Mn <sup>2+</sup> and elástico-mechanoluminescence in diphasé KZn(PO <sub>3</sub> ) <sub>3</sub> :Mn <sup>2+</sup> . <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 7096-7103	7.1	26
536	The Optimization of Visual Comfort and Energy Consumption Induced by Natural Light Based on PSO. <i>Sustainability</i> , <b>2019</b> , 11, 49	3.6	6
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533	Electrocatalysis: Well-Dispersed Nickel- and Zinc-Tailored Electronic Structure of a Transition Metal Oxide for Highly Active Alkaline Hydrogen Evolution Reaction (Adv. Mater. 16/2019). <i>Advanced Materials</i> , <b>2019</b> , 31, 1970113	24	2
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531	Ultrathin Co <sub>3</sub> O <sub>4</sub> Nanosheets with Edge-Enriched {111} Planes as Efficient Catalysts for Lithium-Oxygen Batteries. <i>ACS Catalysis</i> , <b>2019</b> , 9, 3773-3782	13.1	45
530	The Role of Alkali Metal in MnO <sub>2</sub> Catalyzed Ammonia-Selective Catalysis. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 6417-6422	3.6	0
529	Thermal Emitting Strategy to Synthesize Atomically Dispersed Pt Metal Sites from Bulk Pt Metal. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 4505-4509	16.4	174
528	Effective Removal of Anionic Re(VII) by Surface-Modified TiCT MXene Nanocomposites: Implications for Tc(VII) Sequestration. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 3739-3747	10.3	94
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526	Rational Design of Holey 2D Nonlayered Transition Metal Carbide/Nitride Heterostructure Nanosheets for Highly Efficient Water Oxidation. <i>Advanced Energy Materials</i> , <b>2019</b> , 9, 1803768	21.8	143
525	FeNi electrocatalyst with dense active sites and efficient mass transport for high-performance proton exchange membrane fuel cells. <i>Nature Catalysis</i> , <b>2019</b> , 2, 259-268	36.5	580
524	Nitrogen-carbon layer coated nickel nanoparticles for efficient electrocatalytic reduction of carbon dioxide. <i>Nano Research</i> , <b>2019</b> , 12, 1167-1172	10	23
523	A general route via formamide condensation to prepare atomically dispersed metal-nitrogen-carbon electrocatalysts for energy technologies. <i>Energy and Environmental Science</i> , <b>2019</b> , 12, 1317-1325	35.4	181



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516	Sputtered Cu-ZnO/Al <sub>2</sub> O <sub>3</sub> Bifunctional Catalyst with Ultra-Low Cu Content Boosting Dimethyl Ether Steam Reforming and Inhibiting Side Reactions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 7085-7093	3.9	4
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514	Substrate Metabolism-Driven Assembly of High-Quality CdS Se Quantum Dots in Escherichia coli: Molecular Mechanisms and Bioimaging Application. <i>ACS Nano</i> , <b>2019</b> , 13, 5841-5851	16.7	27
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392	An ASIC Design of Multi-Electrode Digital Basket Catheter Systems with Reconfigurable Compressed Sampling <b>2018</b> ,		1
391	Long read range Class-3 UHF RFID system based on harmonic backscattering. <i>Electronics Letters</i> , <b>2018</b> , 54, 1262-1264	1.1	4
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388	A Smart Unstaffed Retail Shop Based on Artificial Intelligence and IoT <b>2018</b> ,		18
387	A GaN Micro-LED Based Underwater Wireless Optical Communication Subjected to Sea Salt, Maalox and Chlorophyll <b>2018</b> ,		1
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375	Printed Passive Wireless Sensors <b>2018</b> , 91-124		
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143	Evaluating Sustainability, Environmental Assessment and Toxic Emissions during Manufacturing Process of RFID Based Systems <b>2011</b> ,		3
142	Life cycle assessment of printed antenna: Comparative analysis and environmental impacts evaluation <b>2011</b> ,		8
141	Co-design of flip chip interconnection with anisotropic conductive adhesives and inkjet-printed circuits for paper-based RFID tags <b>2011</b> ,		1
140	Analog front-end RX design for UWB impulse radio in 90nm CMOS <b>2011</b> ,		1
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136	COSMO: CO-Simulation with MATLAB and OMNeT++ for Indoor Wireless Networks <b>2010</b> ,		13
135	Mismatch aware power and area optimization of successive-approximation ADCs <b>2010</b> ,		1
134	A 77 nW bioamplifier with a tunable bandwidth for neural recording systems <b>2010</b> ,		1
133	Global fresh food tracking service enabled by wide area wireless sensor network <b>2010</b> ,		11
132	Far-field RF powering system for RFID and implantable devices with monolithically integrated on-chip antenna <b>2010</b> ,		16
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128	Mobile wireless sensor system for tracking and environmental supervision <b>2010</b> ,		2
127	Fully integrated 1.2 pJ/p UWB transmitter with on-chip antenna for wireless identification <b>2010</b> ,		2

126	A fast and accurate phase noise measurement of free running oscillators using a single spectrum analyzer <b>2010</b> ,		1
125	A Low Delay Multiple Reader Passive RFID System Using Orthogonal TH-PPM IR-UWB <b>2010</b> ,		1
124	Interactive packaging solutions based on RFID technology and Controlled Delamination Material <b>2010</b> ,		2
123	Design of a self-organized Intelligent Electrode for synchronous measurement of multiple bio-signals in a wearable healthcare monitoring system <b>2010</b> ,		5
122	Energy detection receiver with TOA estimation enabling positioning in passive UWB-RFID system <b>2010</b> ,		7
121	An ultra-low-cost RFID tag with 1.67 Gbps data rate by ink-jet printing on paper substrate <b>2010</b> ,		16
120	Fast transient simulation algorithm for a 3D power distribution bus <b>2010</b> ,		1
119	Wireless sensor networks for logistics and retail <b>2009</b> ,		6
118	Mobile and wide area deployable sensor system for networked services <b>2009</b> ,		10
117	A 1.0 V 78 microw reconfigurable ASIC embedded in an intelligent electrode for continuous remote ECG applications. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 2316-9	0.9	7
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115	ARCHER: an automated RF-IC Rx front-end circuit design tool. <i>Analog Integrated Circuits and Signal Processing</i> , <b>2009</b> , 58, 255-270	1.2	2
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113	Compact modelling of Through-Silicon Vias (TSVs) in three-dimensional (3-D) integrated circuits <b>2009</b> ,		51
112	A pervasive and preventive healthcare solution for medication noncompliance and daily monitoring <b>2009</b> ,		27
111	A 5Mgate/414mW networked media SoC in 0.13um CMOS with 720p multi-standard video decoding <b>2009</b> ,		2
110	Development and experimental verification of analytical models for printable interdigital capacitor sensors on paperboard <b>2009</b> ,		7
109	Two-Layered Wireless Sensor Networks for Warehouses and Supermarkets <b>2009</b> ,		5

108	Power integrity optimization of 3D chips stacked through TSVs <b>2009</b> ,		3
107	Analytical Evaluation of Retransmission Schemes in Wireless Sensor Networks <b>2009</b> ,		13
106	A digital back-end of energy detection UWB impulse radio receiver <b>2009</b> ,		3
105	Impulse UWB energy detection receiver with energy offset synchronization scheme <b>2009</b> ,		7
104	Two-Dimensional and Three-Dimensional Integration of Heterogeneous Electronic Systems Under Cost, Performance, and Technological Constraints. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2009</b> , 28, 1237-1250	2.5	26
103	Intelligent electrode design for long-term ECG monitoring at home: Prototype design using FPAA and FPGA <b>2009</b> ,		4
102	A novel wearable ECG monitoring system based on active-cable and intelligent electrodes <b>2008</b> ,		7
101	Design and implementation of a fully reconfigurable chipless RFID tag using Inkjet printing technology <b>2008</b> ,		20
100	A current shaping technique to lower phase noise in LC oscillators <b>2008</b> ,		4
99	CMOS RF mixer with digitally enhanced IIP2. <i>Electronics Letters</i> , <b>2008</b> , 44, 121	1.1	16
98	. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2008</b> , 16, 589-593	2.6	5
97	Deterministic Worst-Case Performance Analysis for Wireless Sensor Networks <b>2008</b> ,		2
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95	Modeling of On-Chip Bus Switching Current and Its Impact on Noise in Power Supply Grid. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2008</b> , 16, 766-770	2.6	5
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93	A Novel BiST and Calibration Technique for CMOS Down-Converters <b>2008</b> ,		3
92	Antenna miniaturization influence on the performance of impulse radio UWB system <b>2008</b> ,		1
91	Low power tunable CMOS I-UWB transmitter design <b>2007</b> ,		1



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89	Extending systems-on-chip to the third dimension: performance, cost and technological tradeoffs. <i>IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2007</i> ,		43
88	Production of vanillin from waste residue of rice bran oil by <i>Aspergillus niger</i> and <i>Pycnoporus cinnabarinus</i> . <i>Bioresource Technology</i> , <b>2007</b> , 98, 1115-9	11	106
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84	Traffic Splitting with Network Calculus for Mesh Sensor Networks <b>2007</b> ,		3
83	Power Management and Clock Generator for a Novel Passive UWB Tag <b>2007</b> ,		4
82	Design of a Digital Baseband Processor for UWB Transceiver on RFID Tag <b>2007</b> ,		5
81	Minimal-power, delay-balanced smart repeaters for interconnects in the nanometer regime <b>2006</b> ,		4
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78	An innovative fully printable RFID technology based on high speed time-domain reflections <b>2006</b> ,		24
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27	A concurrent multi-band LNA for multi-standard radios		1
26	Concurrent chip package design for global clock distribution network using standing wave approach		1
25	Design and implementation of system-on-package for radio and mixed-signal applications		1
24	Crosstalk immune interconnect driver design		2
23	Process development and reliability for system-in-a-package using liquid crystal polymer substrate		1
22	A DC-13GHz LNA for UWB RFID applications		3
21	Chip-package co-design of a concurrent LNA in system-on-package for multi-band radio applications		3
20	On-chip versus off-chip passives in multi-band radio design		1
19	System-on-chip or system-on-package: can we make an accurate decision on system implementation in an early design phase?		2

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17	Site-Specific Axial Oxygen Coordinated FeN <sub>4</sub> Active Sites for Highly Selective Electroreduction of Carbon Dioxide. <i>Advanced Functional Materials</i> ,2111446	15.6	6
16	Single Co Sites in Ordered SiO <sub>2</sub> Channels for Boosting Nonoxidative Propane Dehydrogenation. <i>ACS Catalysis</i> ,2632-2638	13.1	8
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13	Optimising bandwidth over deep sub-micron interconnect		3
12	Combating digital noise in high speed ULSI circuits using binary BCH encoding		1
11	Synergistic catalysis of cluster and atomic copper induced by copper-silica interface in transfer-hydrogenation. <i>Nano Research</i> ,1	10	3
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8	N coupling with S-coordinated Ru nanoclusters for highly efficient hydrogen evolution in alkaline media. <i>Journal of Materials Chemistry A</i> ,	13	10
7	Ionic-liquid-assisted synthesis of metal single-atom catalysts for benzene oxidation to phenol. <i>Science China Materials</i> ,1	7.1	2
6	Diffusionless-like Transformation Unlocks Pseudocapacitance with Bulk Utilization: Reinventing Fe <sub>2</sub> O <sub>3</sub> in Alkaline Electrolyte. <i>Energy and Environmental Materials</i> ,	13	6
5	A New Strategy for Accelerating Dynamic Proton Transfer of Electrochemical CO <sub>2</sub> Reduction at High Current Densities. <i>Advanced Functional Materials</i> ,2104243	15.6	7
4	Hierarchical Architecture of Well-Aligned Nanotubes Supported Bimetallic Catalysis for Efficient Oxygen Redox. <i>Advanced Functional Materials</i> ,2112805	15.6	1
3	Breaking the activity limitation of iridium single-atom catalyst in hydrogenation of quinoline with synergistic nanoparticles catalysis. <i>Nano Research</i> ,1	10	4
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