

Pedram Fatehi

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4250884/pedram-fatehi-publications-by-year.pdf>

Version: 2024-04-23

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.

399
papers

15,212
citations

65
h-index

106
g-index

429
ext. papers

20,189
ext. citations

7.7
avg, IF

7.72
L-index

#	Paper	IF	Citations
399	A coordination cage hosting ultrafine and highly catalytically active gold nanoparticles.. <i>Chemical Science</i> , 2022 , 13, 461-468	9.4	2
398	Pillared-layer Ni-MOF nanosheets anchored on TiC MXene for enhanced electrochemical energy storage.. <i>Journal of Colloid and Interface Science</i> , 2022 , 614, 130-137	9.3	11
397	Recent progress and challenges in plasmonic nanomaterials. <i>Nanotechnology Reviews</i> , 2022 , 11, 846-873	6.3	1
396	Manipulation of Mott-Schottky Ni/CeO Heterojunctions into N-Doped Carbon Nanofibers for High-Efficiency Electrochemical Water Splitting.. <i>Small</i> , 2022 , e2106592	11	5
395	Interfacial interactions of rough spherical surfaces with random topographies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 642, 128570	5.1	1
394	Interfacial Microenvironment Modulation Enhancing Catalytic Kinetics of Binary Metal Sulfides Heterostructures for Advanced Water Splitting Electrocatalysts.. <i>Small Methods</i> , 2022 , 6, e2101186	12.8	5
393	In Situ Growth of Three-Dimensional MXene/Metal-Organic Framework Composites for High-Performance Supercapacitors.. <i>Angewandte Chemie - International Edition</i> , 2022 ,	16.4	20
392	High strength and multifunctional polyurethane film incorporated with lignin nanoparticles. <i>Industrial Crops and Products</i> , 2022 , 177, 114526	5.9	4
391	Synthesis of truncated octahedral zinc-doped manganese hexacyanoferrates and low-temperature calcination activation for lithium-ion battery. <i>Journal of Colloid and Interface Science</i> , 2022 , 607, 1898-1907	8.7	3
390	Construction of SiO/nitrogen-doped carbon superstructures derived from rice husks for boosted lithium storage. <i>Journal of Colloid and Interface Science</i> , 2022 , 606, 784-792	9.3	11
389	Framework materials for supercapacitors. <i>Nanotechnology Reviews</i> , 2022 , 11, 1005-1046	6.3	6
388	Metal-organic framework-derived phosphide nanomaterials for electrochemical applications 2022 , 4, 246-281		5
387	Base-Free Synthesis and Photophysical Properties of New Schiff Bases Containing Indole Moiety.. <i>ACS Omega</i> , 2022 , 7, 10178-10186	3.9	2
386	Correlation between physicochemical characteristics of lignin deposited on autohydrolyzed wood chips and their cellulase enzymatic hydrolysis.. <i>Bioresource Technology</i> , 2022 , 126941	11	0
385	Hierarchical Cobalt-Nickel Double Hydroxide Arrays Assembled on Naturally Sedimented Ti ₃ C ₂ T _x for High-Performance Flexible Supercapacitors. <i>Advanced Sustainable Systems</i> , 2022 , 6, 2100371	5.9	1
384	Synthesis of Tostadas-Shaped Metal-Organic Frameworks for Remitting Capacity Fading of Li-Ion Batteries. <i>Advanced Functional Materials</i> , 2022 , 32, 2109927	15.6	3
383	In-situ Synthesis of MOF-74 Family for High Areal Energy Density of Aqueous Nickel-Zinc Batteries.. <i>Advanced Materials</i> , 2022 , e2201779	24	9

382	Assembly of aluminum oxide particles with lignin-acrylic acid polymer in saline systems. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022 , 129322	5.1	1
381	Facile Fabrication of Cellulose Nanofibrils/Chitosan Beads as the Potential pH-Sensitive Drug Carriers. <i>Polymers</i> , 2022 , 14, 2286	4.5	0
380	One-dimensional metal-organic frameworks for electrochemical applications. <i>Advances in Colloid and Interface Science</i> , 2021 , 298, 102562	14.3	8
379	Atomically Dispersed Mo Sites Anchored on Multichannel Carbon Nanofibers toward Superior Electrocatalytic Hydrogen Evolution. <i>ACS Nano</i> , 2021 ,	16.7	8
378	Biological Effects of Gyrophoric Acid and Other Lichen Derived Metabolites, on Cell Proliferation, Apoptosis and Cell Signaling pathways. <i>Chemico-Biological Interactions</i> , 2021 , 351, 109768	5	1
377	High-Performance Capacitive Deionization and Killing Microorganism in Surface-Water by ZIF-9 Derived Carbon Composites.. <i>Small Methods</i> , 2021 , 5, e2101070	12.8	5
376	Sustainable Chitosan-Dialdehyde Cellulose Nanocrystal Film. <i>Materials</i> , 2021 , 14,	3.5	5
375	MIL-96-Al for Li-S Batteries: Shape or Size?. <i>Advanced Materials</i> , 2021 , e2107836	24	44
374	Nickel sulfide nanorods decorated on graphene as advanced hydrogen evolution electrocatalysts in acidic and alkaline media. <i>Journal of Colloid and Interface Science</i> , 2021 , 608, 2633-2633	9.3	1
373	A Hierarchically Porous ZIF@LDH Core-Shell Structure for High-Performance Supercapacitors. <i>Chemistry - an Asian Journal</i> , 2021 , 16, 845-849	4.5	5
372	In Situ Anchoring Polymetallic Phosphide Nanoparticles within Porous Prussian Blue Analogue Nanocages for Boosting Oxygen Evolution Catalysis. <i>Nano Letters</i> , 2021 , 21, 3016-3025	11.5	75
371	Interaction of Carboxyalkylated Cellulose Nanocrystals and Antibiotics.. <i>ACS Applied Bio Materials</i> , 2021 , 4, 4165-4175	4.1	1
370	Super functional anionic hydrolysis lignin for capturing dyes. <i>Industrial Crops and Products</i> , 2021 , 162, 113243	5.9	1
369	Flexible All-Solid-State Supercapacitor Fabricated with Nitrogen-Doped Carbon Nanofiber Electrode Material Derived from Polyacrylonitrile Copolymer. <i>ACS Applied Energy Materials</i> , 2021 , 4, 5830-5839 ²	6.1	1
368	Functional Lignin Nanoparticles with Tunable Size and Surface Properties: Fabrication, Characterization, and Use in Layer-by-Layer Assembly. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 26308-26317	9.5	1
367	Silicon oxide-protected nickel nanoparticles as biomass-derived catalysts for urea electro-oxidation. <i>Journal of Colloid and Interface Science</i> , 2021 , 589, 56-64	9.3	12
366	One-Step Template/Solvent-Free Pyrolysis for In Situ Immobilization of CoP Nanoparticles onto N and P Co-Doped Carbon Porous Nanosheets towards High-efficiency Electrocatalytic Hydrogen Evolution. <i>Chemistry - A European Journal</i> , 2021 , 27, 9850-9857	4.8	3
365	Ultrathin One-Dimensional Ni-MIL-77 Nanobelts for High-Performance Electrocatalytic Urea Evolution. <i>Crystal Growth and Design</i> , 2021 , 21, 3639-3644	3.5	1

364	A Review of MOFs and Their Composites-Based Photocatalysts: Synthesis and Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2104231	15.6	50
363	Changes in the molecular structure of cellulose nanocrystals upon treatment with solvents. <i>Cellulose</i> , 2021 , 28, 7007-7020	5.5	0
362	Mixing Time and Scale-up Investigation of a Moving-Baffle Oscillatory Baffled Column. <i>Chemical Engineering and Technology</i> , 2021 , 44, 1403-1411	2	2
361	Process development for tall oil lignin production. <i>Bioresource Technology</i> , 2021 , 329, 124891	11	4
360	When Conductive MOFs Meet MnO: High Electrochemical Energy Storage Performance in an Aqueous Asymmetric Supercapacitor. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33083-33090	9.5	27
359	Aggregation and Sedimentation Performance of Lignin and Hemicellulose Derived Floccs in the Spent Liquor of Thermomechanical Pulping Process. <i>Waste and Biomass Valorization</i> , 2021 , 12, 773-786	3.2	
358	Pyridine-modulated Ni/Co bimetallic metal-organic framework nanoplates for electrocatalytic oxygen evolution. <i>Science China Materials</i> , 2021 , 64, 137-148	7.1	27
357	Generation of sulfonated kraft lignin acrylic acid polymer and its use as a flocculant. <i>Separation Science and Technology</i> , 2021 , 56, 1601-1611	2.5	
356	NiO nanoparticles decorated hexagonal Nickel-based metal-organic framework: Self-template synthesis and its application in electrochemical energy storage. <i>Journal of Colloid and Interface Science</i> , 2021 , 581, 709-718	9.3	19
355	Promoting performance of lithium-sulfur battery via in situ sulfur reduced graphite oxide coating. <i>Rare Metals</i> , 2021 , 40, 417-424	5.5	39
354	Surface and interface characteristics of hydrophobic lignin derivatives in solvents and films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 609, 125656	5.1	10
353	Acid hydrolysis of kraft lignin-acrylamide polymer to improve its flocculation affinity. <i>Separation and Purification Technology</i> , 2021 , 258, 117964	8.3	3
352	A modeling approach for quantitative assessment of interfacial interaction between two rough particles in colloidal systems. <i>Journal of Colloid and Interface Science</i> , 2021 , 587, 24-38	9.3	1
351	Interaction of hairy carboxyalkyl cellulose nanocrystals with cationic surfactant: Effect of carbon spacer. <i>Carbohydrate Polymers</i> , 2021 , 255, 117396	10.3	4
350	Porous rod-like Ni ₂ P/Ni assemblies for enhanced urea electrooxidation. <i>Nano Research</i> , 2021 , 14, 1405-1412	14.1	30
349	Metal-Organic Framework-Based Hybrid Frameworks. <i>Small Structures</i> , 2021 , 2, 2000078	8.7	31
348	Interfacial Engineering-Triggered Bifunctionality of CoS /MoS Nanocubes/Nanosheet Arrays for High-Efficiency Overall Water Splitting. <i>ChemSusChem</i> , 2021 , 14, 699-708	8.3	23
347	Design of hollow carbon-based materials derived from metal-organic frameworks for electrocatalysis and electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 3880-3917	17.3	41

346	Deposition behavior of lignin on solid surfaces assessed by stagnation point adsorption reflectometry.. <i>RSC Advances</i> , 2021 , 11, 16980-16988	3.7	3
345	Lignin production in plants and pilot and commercial processes 2021 , 551-587		0
344	Controllable synthesis of ultrathin layered transition metal hydroxide/zeolitic imidazolate framework-67 hybrid nanosheets for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11201-11209	13	17
343	Present and future prospective of lignin-based materials in biomedical fields 2021 , 395-424		1
342	immobilization of Fe/FeC/FeO hollow hetero-nanoparticles onto nitrogen-doped carbon nanotubes towards high-efficiency electrocatalytic oxygen reduction. <i>Nanoscale</i> , 2021 , 13, 5400-5409	7.7	9
341	Imidazolium salts and [Pt(cod)]: from NHC hydrido complexes to the unprecedented olefinic tetrahedral cluster [Pt(H)(cod)]BF. <i>Chemical Communications</i> , 2021 , 57, 10039-10042	5.8	
340	Production and Application of Triblock Hydrolysis Lignin-Based Anionic Copolymers in Aqueous Systems. <i>ACS Omega</i> , 2021 , 6, 6393-6403	3.9	2
339	Some MoS ₂ -Based Materials for Sodium-Ion Battery 2021 , 111-126		
338	Thermo-induced nanocomposites with improved catalytic efficiency for oxygen evolution. <i>Science China Materials</i> , 2021 , 64, 1556-1562	7.1	4
337	Interfacial and Emulsion Characteristics of Oil-Water Systems in the Presence of Polymeric Lignin Surfactant. <i>Langmuir</i> , 2021 , 37, 3346-3358	4	4
336	Reusable porous amphoteric lignin for water desalination. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 105339	6.8	0
335	Physicochemical impact of cellulose nanocrystal on oxidation of starch and starch based composite films. <i>International Journal of Biological Macromolecules</i> , 2021 , 184, 42-49	7.9	4
334	Recent Developments in the Formulation and Use of Polymers and Particles of Plant-based Origin for Emulsion Stabilizations. <i>ChemSusChem</i> , 2021 , 14, 4850-4877	8.3	2
333	From Co-MOF to CoNi-MOF to Ni-MOF: A Facile Synthesis of 1D Micro-/Nanomaterials. <i>Inorganic Chemistry</i> , 2021 , 60, 13168-13176	5.1	4
332	Lignin copolymers as corrosion inhibitor for carbon steel. <i>Industrial Crops and Products</i> , 2021 , 168, 113585.9	5.9	4
331	Dual lignin-derived polymeric systems for hazardous ion removals. <i>Journal of Hazardous Materials</i> , 2021 , 417, 125970	12.8	1
330	MXene-Copper/Cobalt Hybrids via Lewis Acidic Molten Salts Etching for High Performance Symmetric Supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25318-25322	16.4	70
329	Rational Design and General Synthesis of Multimetallic Metal-Organic Framework Nano-Octahedra for Enhanced Li-S Battery. <i>Advanced Materials</i> , 2021 , 33, e2105163	24	69

328	Chemical reactivity and sulfo-functionalization response of enzymatically produced lignin. <i>Industrial Crops and Products</i> , 2021 , 172, 113950	5.9	1
327	Strong, ductile and biodegradable polylactic acid/lignin-containing cellulose nanofibril composites with improved thermal and barrier properties. <i>Industrial Crops and Products</i> , 2021 , 171, 113898	5.9	8
326	Hydrodynamic alignment and self-assembly of cationic lignin polymers made of architecturally altered monomers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 629, 127437	5.1	1
325	Dispersion performance of hydroxypropyl sulfonated lignin in aluminum oxide suspension. <i>Separation and Purification Technology</i> , 2021 , 276, 119247	8.3	0
324	Coagulation Efficiency of Biomass Fly Ash Leachate in Thermomechanical Pulping (TMP) Pressate. <i>Waste and Biomass Valorization</i> , 2021 , 12, 4643	3.2	
323	Calcination activation of three-dimensional cobalt organic phosphate nanoflake assemblies for supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2021 , 8, 4222-4229	6.8	6
322	Recent advances in two-dimensional materials for alkali metal anodes. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 5232-5257	13	16
321	Recent progress of dimensionally designed electrode nanomaterials in aqueous electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 9535-9572	13	19
320	Applications of Metal-Organic Frameworks in Water Treatment: A Review. <i>Small</i> , 2021 , e2105715	11	10
319	In-Situ Rheological Studies of Cationic Lignin Polymerization in an Acidic Aqueous System. <i>Polymers</i> , 2020 , 12,	4.5	1
318	Ultrathin Ni-MOF Nanobelts-Derived Composite for High Sensitive Detection of Nitrite. <i>Frontiers in Chemistry</i> , 2020 , 8, 330	5	9
317	Pickering/Non-Pickering Emulsions of Nanostructured Sulfonated Lignin Derivatives. <i>ChemSusChem</i> , 2020 , 13, 4567-4578	8.3	14
316	Quasi-ZIF-67 for Boosted Oxygen Evolution Reaction Catalytic Activity via a Low Temperature Calcination. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 25037-25041	9.5	40
315	Experimental and modeling analysis of lignin derived polymer in flocculating aluminium oxide particles. <i>Separation and Purification Technology</i> , 2020 , 247, 116944	8.3	4
314	Synthesis of Quasi-Ce-MOF Electro-catalysts for Enhanced Urea Oxidation Reaction Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 8675-8680	8.3	36
313	Nitrogen-, phosphorus-doped carbon-carbon nanotube CoP dodecahedra by controlling zinc content for high-performance electrocatalytic oxygen evolution. <i>Rare Metals</i> , 2020 , 39, 680-687	5.5	37
312	Applications of Tin Sulfide-Based Materials in Lithium-Ion Batteries and Sodium-Ion Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2001298	15.6	90
311	Porous phosphorus-rich CoP ₃ /CoSnO ₂ hybrid nanocubes for high-performance Zn-air batteries. <i>Science China Chemistry</i> , 2020 , 63, 475-482	7.9	23

310	Alternate Integration of Vertically Oriented CuSe@FeOOH and CuSe@MnOOH Hybrid Nanosheets Frameworks for Flexible In-Plane Asymmetric Micro-supercapacitors. <i>ACS Applied Energy Materials</i> , 2020 , 3, 3692-3703	6.1	17
309	Two-Dimensional MOF and COF Nanosheets: Synthesis and Applications in Electrochemistry. <i>Chemistry - A European Journal</i> , 2020 , 26, 6402-6422	4.8	75
308	Specific-oxygen-supply functionalized core-shell nanoparticles for smart mutual-promotion between photodynamic therapy and gambogic acid-induced chemotherapy. <i>Biomaterials</i> , 2020 , 257, 120228	15.6	21
307	Lignin-methyl methacrylate polymer as a hydrophobic multifunctional material. <i>Industrial Crops and Products</i> , 2020 , 154, 112728	5.9	7
306	Technical lignin and its potential modification routes: A mini-review. <i>Industrial Crops and Products</i> , 2020 , 154, 112732	5.9	41
305	Clean utilization of palm kernel shell: sustainable and naturally heteroatom-doped porous activated carbon for lithium-sulfur batteries. <i>Rare Metals</i> , 2020 , 39, 1099-1106	5.5	48
304	Oxalate-derived porous prismatic nickel/nickel oxide nanocomposites toward lithium-ion battery. <i>Journal of Colloid and Interface Science</i> , 2020 , 580, 614-622	9.3	20
303	Ultrathin nanosheet-assembled accordion-like Ni-MOF for hydrazine hydrate amperometric sensing. <i>Mikrochimica Acta</i> , 2020 , 187, 168	5.8	14
302	Carboxymethylated cellulose nanocrystals as clay suspension dispersants: effect of size and surface functional groups. <i>Cellulose</i> , 2020 , 27, 3759-3772	5.5	8
301	Oscillatory power number, power density model, and effect of restriction size for a moving-baffle oscillatory baffled column using CFD modelling. <i>Canadian Journal of Chemical Engineering</i> , 2020 , 98, 1172-1190 ⁴	2.3	190 ⁴
300	Controllable synthesis of a mesoporous NiO/Ni nanorod as an excellent catalyst for urea electro-oxidation. <i>Inorganic Chemistry Frontiers</i> , 2020 , 7, 2089-2096	6.8	31
299	A Honeycomb-Like Bulk Superstructure of Carbon Nanosheets for Electrocatalysis and Energy Storage. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19627-19632	16.4	50
298	A Honeycomb-Like Bulk Superstructure of Carbon Nanosheets for Electrocatalysis and Energy Storage. <i>Angewandte Chemie</i> , 2020 , 132, 19795-19800	3.6	4
297	Enhancing Ion Transport: Function of Ionic Liquid Decorated MOFs in Polymer Electrolytes for All-Solid-State Lithium Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4265-4274	6.1	25
296	Ni/Co bimetallic organic framework nanosheet assemblies for high-performance electrochemical energy storage. <i>Nanoscale</i> , 2020 , 12, 10685-10692	7.7	24
295	Hatted 1T/2H-Phase MoS ₂ on Ni S Nanorods for Efficient Overall Water Splitting in Alkaline Media. <i>Chemistry - A European Journal</i> , 2020 , 26, 2034-2040	4.8	12
294	Microporous Carbon Nanofibers Derived from Poly(acrylonitrile-co-acrylic acid) for High-Performance Supercapacitors. <i>Chemistry - A European Journal</i> , 2020 , 26, 3326-3334	4.8	18
293	Copolymer derived micro/meso-porous carbon nanofibers with vacancy-type defects for high-performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 2463-2471	13	60

292	Solid-State Hybrid Supercapacitor Assembled from a Heterostructured CoNi Battery-like Cathode and Supercapacitor-Type Highly Disordered Carbon Nanosheets. <i>ChemElectroChem</i> , 2020 , 7, 517-525	4.3	4
291	Ultrathin cobalt pyrophosphate nanosheets with different thicknesses for Zn-air batteries. <i>Journal of Colloid and Interface Science</i> , 2020 , 563, 328-335	9.3	24
290	Amorphous Intermediate Derivative from ZIF-67 and Its Outstanding Electrocatalytic Activity. <i>Small</i> , 2020 , 16, e1904252	11	65
289	Porous pyrrhotite FeS nanowire/SiO/nitrogen-doped carbon matrix for high-performance Li-ion-battery anodes. <i>Journal of Colloid and Interface Science</i> , 2020 , 561, 801-807	9.3	42
288	Fabrication of amphoteric lignin and its hydrophilicity/oleophilicity at oil/water interface. <i>Journal of Colloid and Interface Science</i> , 2020 , 561, 231-243	9.3	13
287	Comparison of mixing performance between stationary-baffle and moving-baffle batch oscillatory baffled columns via numerical modeling. <i>Chemical Engineering Communications</i> , 2020 , 1-30	2.2	2
286	High Acid Biochar-Based Solid Acid Catalyst from Corn Stalk for Lignin Hydrothermal Degradation. <i>Polymers</i> , 2020 , 12,	4.5	2
285	Polarity of Cationic Lignin Polymers: Physicochemical Behavior in Aqueous Solutions and Suspensions. <i>ChemSusChem</i> , 2020 , 13, 4722-4734	8.3	2
284	Generation and Use of Lignin-AMPS in Extended DLVO Theory for Evaluating the Flocculation of Colloidal Particles. <i>ACS Omega</i> , 2020 , 5, 21032-21041	3.9	4
283	Phosphorylated kraft lignin with improved thermal stability. <i>International Journal of Biological Macromolecules</i> , 2020 , 162, 1642-1652	7.9	8
282	Interaction of synthetic and lignin-based sulfonated polymers with hydrophilic, hydrophobic, and charged self-assembled monolayers.. <i>RSC Advances</i> , 2020 , 10, 36778-36793	3.7	5
281	Interaction Mechanism of Anionic Lignin and Cationic Soft Surface in Saline Systems. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 8678-8689	3.4	5
280	Vanadium-Based Materials as Positive Electrode for Aqueous Zinc-Ion Batteries. <i>Advanced Sustainable Systems</i> , 2020 , 4, 2000178	5.9	14
279	Performance of polyvinyl alcohol hydrogel reinforced with lignin-containing cellulose nanocrystals. <i>Cellulose</i> , 2020 , 27, 8725-8743	5.5	16
278	Using Sulfobutylated and Sulfomethylated Lignin as Dispersant for Kaolin Suspension. <i>Polymers</i> , 2020 , 12,	4.5	3
277	Vanadium sulfide based materials: synthesis, energy storage and conversion. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 20781-20802	13	26
276	Advances in the application of manganese dioxide and its composites as electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18492-18514	13	16
275	Emerging Metal Single Atoms in Electrocatalysts and Batteries. <i>Advanced Functional Materials</i> , 2020 , 30, 2003870	15.6	25

274	An investigation on the stability of the hazelnut oil-water emulsion. <i>Journal of Dispersion Science and Technology</i> , 2020 , 41, 929-940	1.5	6
273	A highly alkaline-stable metal oxide@metal-organic framework composite for high-performance electrochemical energy storage. <i>National Science Review</i> , 2020 , 7, 305-314	10.8	265
272	Isolation of Lignocelluloses via Acidification of Hydrolysates Induced from Different Straws. <i>Waste and Biomass Valorization</i> , 2020 , 11, 4359-4367	3.2	
271	Anchoring ZIF-67 particles on amidoximerized polyacrylonitrile fibers for radionuclide sequestration in wastewater and seawater. <i>Journal of Hazardous Materials</i> , 2020 , 395, 122692	12.8	51
270	Applications of Cellulose-based Materials in Sustained Drug Delivery Systems. <i>Current Medicinal Chemistry</i> , 2019 , 26, 2485-2501	4.3	65
269	Controllable synthesis and electrochemical capacitor performance of MOF-derived MnOx/N-doped carbon/MnO ₂ composites. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2873-2884	6.8	16
268	Impact of Counter Ions of Cationic Monomers on the Production and Characteristics of Chitosan-Based Hydrogel. <i>ACS Omega</i> , 2019 , 4, 15087-15096	3.9	3
267	Hydrothermal synthesis of MnOOH nanowires using sapless leaves as the reductant: an effective catalyst for the regio-specific epoxidation of Nonone. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2572-2576	5.8	5
266	Si-based materials derived from biomass: synthesis and applications in electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22123-22147	13	53
265	Phenomenological Changes in Lignin Following Polymerization and Its Effects on Flocculating Clay Particles. <i>Biomacromolecules</i> , 2019 , 20, 3940-3951	6.9	14
264	Alteration in interfacial properties and stability of coal water slurry by lignosulfonate. <i>Powder Technology</i> , 2019 , 356, 920-929	5.2	12
263	Graphitic carbon nitride based materials for electrochemical energy storage. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 901-924	13	120
262	Metal-organic frameworks for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3469-3491	13	175
261	CFD population balance modeling and dimensionless group analysis of a multiphase oscillatory baffled column (OBC) using moving overset meshes. <i>Chemical Engineering Science</i> , 2019 , 199, 552-570	4.4	9
260	Smart Yolk/Shell Hybrids as Efficient Electrocatalysts for the Oxygen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 5027-5033	8.3	72
259	Fabrication, characteristics and applications of carbon materials with different morphologies and porous structures produced from wood liquefaction: A review. <i>Chemical Engineering Journal</i> , 2019 , 364, 226-243	14.7	75
258	Preparation of Xylan-Acrylic Acid Polymer with High Molecular Weight and its Application as a Dye Removal Flocculant. <i>Journal of Wood Chemistry and Technology</i> , 2019 , 39, 75-89	2	3
257	Isolation of lignocelluloses from the spent liquor of thermomechanical pulping process with fly ash and cationic polymer. <i>Journal of Environmental Management</i> , 2019 , 235, 414-422	7.9	

256	Chemical and thermal properties of precipitates made from hydrolysate of spruce wood chips. <i>Wood Science and Technology</i> , 2019 , 53, 889-909	2.5	1
255	A new strategy for the controllable growth of MOF@PBA architectures. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17266-17271	13	54
254	A novel strategy for the synthesis of highly stable ternary SiO _x composites for Li-ion-battery anodes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15969-15974	13	89
253	The synthesis and electrochemical applications of core-shell MOFs and their derivatives. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15519-15540	13	70
252	The application of CeO ₂ -based materials in electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17675-17702	13	62
251	Synergistic effect of lignin incorporation into polystyrene for producing sustainable superadsorbent.. <i>RSC Advances</i> , 2019 , 9, 17639-17652	3.7	7
250	Small sized Fe ₃ O ₄ sulfide nanoclusters anchored on carbon for oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 15851-15861	13	57
249	Regulation of the Ni Content in a Hierarchical Urchin-Like MOF for High-Performance Electrocatalytic Oxygen Evolution. <i>Frontiers in Chemistry</i> , 2019 , 7, 411	5	9
248	Applications of MSe (M = Fe, Co, Ni) and Their Composites in Electrochemical Energy Storage and Conversion. <i>Nano-Micro Letters</i> , 2019 , 11, 40	19.5	59
247	Evolving a flocculation process for isolating liginosulfonate from solution. <i>Separation and Purification Technology</i> , 2019 , 222, 254-263	8.3	20
246	Ultrafast adsorption of heavy metal ions onto functionalized lignin-based hybrid magnetic nanoparticles. <i>Chemical Engineering Journal</i> , 2019 , 372, 82-91	14.7	97
245	Different positive electrode materials in organic and aqueous systems for aluminium ion batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14391-14418	13	45
244	Mesoporous NHNiPO ₄ H ₂ O for High-Performance Flexible All-Solid-State Asymmetric Supercapacitors. <i>Frontiers in Chemistry</i> , 2019 , 7, 118	5	14
243	A High-Efficiency Electrocatalyst for Oxidizing Glucose: Ultrathin Nanosheet Co-Based Organic Framework Assemblies. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8986-8992	8.3	28
242	Metal-organic framework composites and their electrochemical applications. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7301-7327	13	186
241	Synthesis of Co Mn Ni C O ?n H O Micropolyhedrons: Multimetal Synergy for High-Performance Glucose Oxidation Catalysis. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 2259-2265	4.5	14
240	Self-assembly of kraft lignin-acrylamide polymers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 572, 230-236	5.1	8
239	EMnOOH Nanowires Hydrothermally Reduced by Leaves for High-Efficiency Electrocatalysis of the Glucose Oxidation Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8972-8978	8.3	7

238	The State of Research Regarding Ordered Mesoporous Materials in Batteries. <i>Small</i> , 2019 , 15, e180460011		14
237	Sulfonation of Phenolated Kraft Lignin to Produce Water Soluble Products. <i>Journal of Wood Chemistry and Technology</i> , 2019 , 39, 225-241	2	21
236	Lignin-derived platform molecules through TEMPO catalytic oxidation strategies. <i>Progress in Energy and Combustion Science</i> , 2019 , 72, 59-89	33.6	39
235	Lignin for polymer and nanoparticle production: Current status and challenges. <i>Canadian Journal of Chemical Engineering</i> , 2019 , 97, 2827-2842	2.3	40
234	One-pot preparation of zwitterion-type lignin polymers. <i>International Journal of Biological Macromolecules</i> , 2019 , 140, 429-440	7.9	5
233	Core-shell-type ZIF-8@ZIF-67@POM hybrids as efficient electrocatalysts for the oxygen evolution reaction. <i>Inorganic Chemistry Frontiers</i> , 2019 , 6, 2514-2520	6.8	50
232	Concentration as a trigger to improve electrocatalytic activity of a Prussian blue analogue in glucose oxidation. <i>CrystEngComm</i> , 2019 , 21, 5455-5460	3.3	12
231	Enhanced Electrochemical Performance of Sb ₂ O ₃ as an Anode for Lithium-Ion Batteries by a Stable Cross-Linked Binder. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 2677	2.6	45
230	Biowaste-Derived Porous Carbon with Tuned Microstructure for High-Energy Quasi-Solid-State Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 13127-13135	8.3	32
229	Exposing {001} Crystal Plane on Hexagonal Ni-MOF with Surface-Grown Cross-Linked Mesh-Structures for Electrochemical Energy Storage. <i>Small</i> , 2019 , 15, e1902463	11	69
228	PBA@POM Hybrids as Efficient Electrocatalysts for the Oxygen Evolution Reaction. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 2790-2795	4.5	7
227	One step synthesis of boron-doped carbon nitride derived from 4-pyridylboronic acid as biosensing platforms for assessment of food safety. <i>Chemical Communications</i> , 2019 , 55, 9160-9163	5.8	18
226	Carbon nanotube-based materials for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 17204-17241	13	112
225	Polypyrrole coated hollow metal-organic framework composites for lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19465-19470	13	94
224	Improvements on activated sludge settling and flocculation using biomass-based fly ash as activator. <i>Scientific Reports</i> , 2019 , 9, 14590	4.9	5
223	Preparation and Coagulation Performance of Carboxypropylated and Carboxypentylated Lignosulfonates for Dye Removal. <i>Biomolecules</i> , 2019 , 9,	5.9	9
222	Silver-doped carbon fibers at low loading capacity that display high antibacterial properties. <i>Journal of Chemical Technology and Biotechnology</i> , 2019 , 94, 1628-1637	3.5	2
221	Modification of Kraft Lignin with Dodecyl Glycidyl Ether. <i>ChemistryOpen</i> , 2019 , 8, 1258-1266	2.3	1

220	Hierarchical Bimetallic Hydroxides Built by Porous Nanowire-Lapped Bundles with Ultrahigh Areal Capacity for Stable Hybrid Solid-State Supercapacitors. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900959	4.6	7
219	Flocculation of kaolin particles with cationic lignin polymers. <i>Scientific Reports</i> , 2019 , 9, 2672	4.9	15
218	Sulfonation of Hydroxymethylated Lignin and Its Application. <i>Journal of Bioresources and Bioproducts</i> , 2019 , 4, 80-88	18.7	12
217	Recent development of biomass-derived carbons and composites as electrode materials for supercapacitors. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 2543-2570	7.8	79
216	Grafting strategies for hydroxy groups of lignin for producing materials. <i>Green Chemistry</i> , 2019 , 21, 5714-5752	5.7	57
215	Nickel Oxide/Graphene Composites: Synthesis and Applications. <i>Chemistry - A European Journal</i> , 2019 , 25, 2141-2160	4.8	29
214	Cationic kraft lignin-acrylamide copolymer as a flocculant for clay suspensions: (2) Charge density effect. <i>Separation and Purification Technology</i> , 2019 , 210, 963-972	8.3	32
213	Controlled synthesis of metal-organic frameworks coated with noble metal nanoparticles and conducting polymer for enhanced catalysis. <i>Journal of Colloid and Interface Science</i> , 2019 , 537, 262-268	9.3	21
212	Periodate oxidation of carbohydrate-enriched hydrolysis lignin and its application as coagulant for aluminum oxide suspension. <i>Industrial Crops and Products</i> , 2019 , 130, 81-95	5.9	12
211	Kraft Lignin-Mannic Acid as a Green Stabilizer for Oil/Water Emulsion. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2370-2379	8.3	22
210	Structure and settling performance of aluminum oxide and poly(acrylic acid) flocs in suspension systems. <i>Separation and Purification Technology</i> , 2019 , 215, 115-124	8.3	10
209	Pristine Transition-Metal-Based Metal-Organic Frameworks for Electrocatalysis. <i>ChemElectroChem</i> , 2019 , 6, 1273-1299	4.3	41
208	Applications of Metal-Organic-Framework-Derived Carbon Materials. <i>Advanced Materials</i> , 2019 , 31, e1804740	14.7	136
207	Adsorption optimization of a biomass-based fly ash for treating thermomechanical pulping (TMP) pressate using definitive screening design (DSD). <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 1663-1673	2.3	3
206	Cobalt-Doped Nickel Phosphite for High Performance of Electrochemical Energy Storage. <i>Small</i> , 2018 , 14, e1703811	11	57
205	Encapsulating highly catalytically active metal nanoclusters inside porous organic cages. <i>Nature Catalysis</i> , 2018 , 1, 214-220	36.5	209
204	Hollow Structural Transition Metal Oxide for Advanced Supercapacitors. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701509	4.6	62
203	A photo-responsive macroscopic switch constructed using a chiral azo-calix[4]arene functionalized silicon surface. <i>Chemical Communications</i> , 2018 , 54, 2978-2981	5.8	17

202	Synthesis and characterization of lignin-poly(acrylamide)-poly(2-methacryloyloxyethyl) trimethyl ammonium chloride copolymer. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46338	2.9	19
201	Cationic xylan- (2-methacryloyloxyethyl trimethyl ammonium chloride) polymer as a flocculant for pulping wastewater. <i>Carbohydrate Polymers</i> , 2018 , 186, 358-366	10.3	13
200	Novel Process for Generating Cationic Lignin Based Flocculant. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 6595-6608	3.9	42
199	Current Advances in Semiconductor Nanomaterial-Based Photoelectrochemical Biosensing. <i>Chemistry - A European Journal</i> , 2018 , 24, 14010-14027	4.8	65
198	Developing performance-property correlation for fly ash as adsorbent for pulping effluents. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 2502-2513	6.8	2
197	Adsorption and dispersion performance of oxidized sulfomethylated kraft lignin in coal water slurry. <i>Fuel Processing Technology</i> , 2018 , 176, 267-275	7.2	30
196	Nitrogen-Doped Cobalt Oxide Nanostructures Derived from Cobalt-Alanine Complexes for High-Performance Oxygen Evolution Reactions. <i>Advanced Functional Materials</i> , 2018 , 28, 1800886	15.6	239
195	Transition Metal Sulfides Based on Graphene for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2018 , 8, 1703259	21.8	479
194	Dual anode materials for lithium- and sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 4236-4259	13	65
193	Synthesis of Iron Phosphate and Their Composites for Lithium/Sodium Ion Batteries. <i>Advanced Sustainable Systems</i> , 2018 , 2, 1700154	5.9	12
192	Flow through autohydrolysis of spruce wood chips and lignin carbohydrate complex formation. <i>Cellulose</i> , 2018 , 25, 1377-1393	5.5	12
191	Facile Synthesis of Ultrathin Nickel-Cobalt Phosphate 2D Nanosheets with Enhanced Electrocatalytic Activity for Glucose Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 2360-2367	9.5	77
190	Preparation and application of sulfated xylan as a flocculant for dye solution. <i>Biotechnology Progress</i> , 2018 , 34, 529-536	2.8	7
189	Fabrication of Cu O-based Materials for Lithium-Ion Batteries. <i>ChemSusChem</i> , 2018 , 11, 1581-1599	8.3	44
188	Novel pathway to produce high molecular weight kraft lignin-acrylic acid polymers in acidic suspension systems.. <i>RSC Advances</i> , 2018 , 8, 12322-12336	3.7	22
187	Stability of kaolin dispersion in the presence of lignin-acrylamide polymer. <i>Applied Clay Science</i> , 2018 , 158, 72-82	5.2	28
186	Our Contributions in Nanochemistry for Antibiosis, Electrocatalyst and Energy Storage Materials. <i>Chemical Record</i> , 2018 , 18, 91-104	6.6	12
185	Impact of fly ash pretreatment on aerobic treatment of thermomechanical pulping spent liquor. <i>Biotechnology Progress</i> , 2018 , 34, 370-378	2.8	

184	Metal (M = Co, Ni) phosphate based materials for high-performance supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 11-28	6.8	110
183	Enhancement in biological treatment of pulping wastewater by fly ash. <i>Chemosphere</i> , 2018 , 210, 1-9	8.4	6
182	Hardwood Kraft Lignin-Based Hydrogels: Production and Performance. <i>ACS Omega</i> , 2018 , 3, 8233-8242	3.9	22
181	Synthetic and lignin-based surfactants: Challenges and opportunities. <i>Carbon Resources Conversion</i> , 2018 , 1, 126-138	4.7	50
180	Production of Flocculants, Adsorbents, and Dispersants from Lignin. <i>Molecules</i> , 2018 , 23,	4.8	50
179	Preparation and Application of Phosphorylated Xylan as a Flocculant for Cationic Ethyl Violet Dye. <i>Polymers</i> , 2018 , 10,	4.5	15
178	Facile Synthesis of Vanadium Metal-Organic Frameworks for High-Performance Supercapacitors. <i>Small</i> , 2018 , 14, e1801815	11	128
177	Interaction of poly(acrylic acid) and aluminum oxide particles in suspension: Particle size effect. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 556, 218-226	5.1	14
176	Synthesis and Progress of New Oxygen-Vacant Electrode Materials for High-Energy Rechargeable Battery Applications. <i>Small</i> , 2018 , 14, e1802193	11	48
175	The Research Development of Quantum Dots in Electrochemical Energy Storage. <i>Small</i> , 2018 , 14, e1801479	11	36
174	Sulfonated Lignin--Styrene Polymer: Production and Characterization. <i>Polymers</i> , 2018 , 10,	4.5	6
173	Generation of New Cationic Xylan-Based Polymer in Industrially Relevant Process. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 12670-12682	3.9	6
172	Hydroxypropyl sulfonated kraft lignin as a coagulant for cationic dye. <i>Industrial Crops and Products</i> , 2018 , 124, 273-283	5.9	25
171	Preparation and Application of Carboxymethylated Xylan as a Flocculant for Ethyl Violet Dye in Aqueous Systems. <i>Journal of Wood Chemistry and Technology</i> , 2018 , 38, 324-337	2	5
170	Ultrathin two-dimensional cobalt-organic framework nanosheets for high-performance electrocatalytic oxygen evolution. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22070-22076	13	182
169	Metal-Organic Framework-Derived Carbons for Battery Applications. <i>Advanced Energy Materials</i> , 2018 , 8, 1800716	21.8	136
168	Synthesis and Characterization of Carboxyethylated Lignosulfonate. <i>ChemSusChem</i> , 2018 , 11, 2967-2980	3	22
167	Fly ash based adsorbent for treating bleaching effluent of kraft pulping process. <i>Separation and Purification Technology</i> , 2018 , 195, 60-69	8.3	16

166	Ultrathin Nanosheet Assembled Sn Co S Nanocages with Exposed (100) Facets for High-Performance Lithium-Ion Batteries. <i>Small</i> , 2018 , 14, 1702184	11	24
165	Hierarchically nanostructured transition metal oxides for supercapacitors. <i>Science China Materials</i> , 2018 , 61, 185-209	7.1	58
164	Designing anionic lignin based dispersant for kaolin suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 538, 639-650	5.1	22
163	Interaction of sulfomethylated lignin and aluminum oxide. <i>Colloid and Polymer Science</i> , 2018 , 296, 1867-1878	11.78	11
162	Adsorption Characteristics of Carboxymethylated Lignin on Rigid and Soft Surfaces Probed by Quartz Crystal Microbalance. <i>Langmuir</i> , 2018 , 34, 15293-15303	4	11
161	Facile Synthesis of Zn/N-doped CuO and Their Application in Oxygen Evolution Reaction. <i>ChemistrySelect</i> , 2018 , 3, 12205-12209	1.8	2
160	A process for purifying xylosugars of pre-hydrolysis liquor from kraft-based dissolving pulp production process. <i>Biotechnology for Biofuels</i> , 2018 , 11, 337	7.8	7
159	Nickel-Based Sulfide Materials for Batteries. <i>ChemistrySelect</i> , 2018 , 3, 12967-12986	1.8	7
158	Tungsten-Based Materials for Lithium-Ion Batteries. <i>Advanced Functional Materials</i> , 2018 , 28, 1707500	15.6	80
157	Lignin-carbohydrate complexes: properties, applications, analyses, and methods of extraction: a review. <i>Biotechnology for Biofuels</i> , 2018 , 11, 269	7.8	161
156	Synthesis of Ni ₄ Yb(OH) ₁₀ NO ₃ · 3H ₂ O Nanosheets for Electrode Materials in Electrochemical Energy Storage. <i>ChemElectroChem</i> , 2018 , 5, 3150-3154	4.3	2
155	Metal-Organic Frameworks/Graphene-Based Materials: Preparations and Applications. <i>Advanced Functional Materials</i> , 2018 , 28, 1804950	15.6	160
154	π-Conjugated Molecule Boosts Metal-Organic Frameworks as Efficient Oxygen Evolution Reaction Catalysts. <i>Small</i> , 2018 , 14, e1803576	11	61
153	High-Performance Flexible In-Plane Micro-Supercapacitors Based on Vertically Aligned CuSe@Ni(OH) ₂ Hybrid Nanosheet Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38341-38349	9.5	31
152	Superlong Single-Crystal Metal-Organic Framework Nanotubes. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15393-15401	16.4	153
151	Cationic High Molecular Weight Lignin Polymer: A Flocculant for the Removal of Anionic Azo-Dyes from Simulated Wastewater. <i>Molecules</i> , 2018 , 23,	4.8	19
150	Ultrathin Nanobelts as an Excellent Bifunctional Oxygen Catalyst: Insight into the Subtle Changes in Structure and Synergistic Effects of Bimetallic Metal-Organic Framework. <i>Small Methods</i> , 2018 , 2, 1800240	12.8	57
149	Lignin-g-poly(acrylamide)-g-poly(diallyldimethyl-ammonium chloride): Synthesis, Characterization and Applications. <i>ChemistryOpen</i> , 2018 , 7, 645-658	2.3	12

148	Ultrathin Cu-MOF@MnO ₂ nanosheets for aqueous electrolyte-based high-voltage electrochemical capacitors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17329-17336	13	66
147	Recent Progress in Some Amorphous Materials for Supercapacitors. <i>Small</i> , 2018 , 14, e1800426	11	88
146	A biomimetic chiral-driven ionic gate constructed by pillar[6]arene-based host-guest systems. <i>Nature Communications</i> , 2018 , 9, 2617	17.4	85
145	MOF-Derived Metal Oxide Composites for Advanced Electrochemical Energy Storage. <i>Small</i> , 2018 , 14, e1704435	11	193
144	Cationic kraft lignin-acrylamide as a flocculant for clay suspensions: 1. Molecular weight effect. <i>Separation and Purification Technology</i> , 2018 , 207, 213-221	8.3	18
143	Derivatives of coordination compounds for rechargeable batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13999-14024	13	51
142	A glassy carbon electrode modified with ordered nanoporous Co ₃ O ₄ for non-enzymatic sensing of glucose. <i>Mikrochimica Acta</i> , 2017 , 184, 943-949	5.8	24
141	Thermal properties of lignocellulosic precipitates from neutral sulfite semichemical pulping process. <i>Fuel Processing Technology</i> , 2017 , 158, 146-153	7.2	10
140	Redox-active triazatruxene-based conjugated microporous polymers for high-performance supercapacitors. <i>Chemical Science</i> , 2017 , 8, 2959-2965	9.4	103
139	Ultrasonic-assisted ionic liquid treatment of chemithermomechanical pulp fibers. <i>Cellulose</i> , 2017 , 24, 1483-1491	5.5	7
138	Nanoparticle/MOF composites: preparations and applications. <i>Materials Horizons</i> , 2017 , 4, 557-569	14.4	174
137	A process for producing lignin and volatile compounds from hydrolysis liquor. <i>Biotechnology for Biofuels</i> , 2017 , 10, 47	7.8	13
136	Production and Application of Lignosulfonates and Sulfonated Lignin. <i>ChemSusChem</i> , 2017 , 10, 1861-1873	7.3	307
135	Oxygen Vacancies Enhancing Electrocatalysis Performance of Porous Copper Oxide. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600420	3.1	18
134	Ultrathin Nickel-Cobalt Phosphate 2D Nanosheets for Electrochemical Energy Storage under Aqueous/Solid-State Electrolyte. <i>Advanced Functional Materials</i> , 2017 , 27, 1605784	15.6	297
133	Nanostructured Germanium Anode Materials for Advanced Rechargeable Batteries. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600798	4.6	90
132	One-step synthesis of CoSn(OH) ₆ nanocubes for high-performance all solid-state flexible supercapacitors. <i>Rare Metals</i> , 2017 , 36, 457-464	5.5	18
131	Transition-Metal (Fe, Co, Ni) Based Metal-Organic Frameworks for Electrochemical Energy Storage. <i>Advanced Energy Materials</i> , 2017 , 7, 1602733	21.8	582

130	Flocculation of thermomechanical pulping spent liquor with polydiallyldimethylammonium chloride. <i>Journal of Environmental Management</i> , 2017 , 200, 275-282	7.9	10
129	Ni and NiO Nanoparticles Decorated Metal-Organic Framework Nanosheets: Facile Synthesis and High-Performance Nonenzymatic Glucose Detection in Human Serum. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 22342-22349	9.5	154
128	N,S co-doped 3D mesoporous carbon ₃ Si ₂ O ₅ (OH) ₄ architectures for high-performance flexible pseudo-solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12774-12781	13	137
127	Activated graphene with tailored pore structure parameters for long cycle-life lithium-sulfur batteries. <i>Nano Research</i> , 2017 , 10, 4305-4317	10	45
126	Treating thermomechanical pulping wastewater with biomass-based fly ash: Modeling and experimental studies. <i>Separation and Purification Technology</i> , 2017 , 183, 106-116	8.3	9
125	Energy Storage: Ultrathin Nickel-Cobalt Phosphate 2D Nanosheets for Electrochemical Energy Storage under Aqueous/Solid-State Electrolyte (Adv. Funct. Mater. 12/2017). <i>Advanced Functional Materials</i> , 2017 , 27,	15.6	1
124	Transition metal oxides with one-dimensional/one-dimensional-analogue nanostructures for advanced supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 8155-8186	13	317
123	Rechargeable zinc-air batteries: a promising way to green energy. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 7651-7666	13	323
122	Facile one-step synthesis of Ag@CeO ₂ core-shell nanospheres with efficient catalytic activity for the reduction of 4-nitrophenol. <i>CrystEngComm</i> , 2017 , 19, 684-689	3.3	34
121	Dispersion of kaolin particles with carboxymethylated xylan. <i>Applied Clay Science</i> , 2017 , 137, 183-191	5.2	23
120	Facile synthesis of Mn ₃ [Co(CN) ₆] ₂ ·nH ₂ O nanocrystals for high-performance electrochemical energy storage devices. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 442-449	6.8	12
119	Preparation of N, P co-doped activated carbons derived from honeycomb as an electrode material for supercapacitors. <i>RSC Advances</i> , 2017 , 7, 47448-47455	3.7	17
118	Syntheses and Energy Storage Applications of M _x S _y (M = Cu, Ag, Au) and Their Composites: Rechargeable Batteries and Supercapacitors. <i>Advanced Functional Materials</i> , 2017 , 27, 1703949	15.6	126
117	Oxidation of Kraft Lignin with Hydrogen Peroxide and its Application as a Dispersant for Kaolin Suspensions. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 10597-10605	8.3	48
116	Production of Sulfur Containing Kraft Lignin Products. <i>BioResources</i> , 2017 , 13,	1.3	6
115	Porous high specific surface area-activated carbon with co-doping N, S and P for high-performance supercapacitors. <i>RSC Advances</i> , 2017 , 7, 43780-43788	3.7	27
114	Electrocatalysis of Rechargeable Non-Lithium Metal-Air Batteries. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700589	4.6	17
113	Amorphous Cobalt Coordination Nanolayers Incorporated with Silver Nanowires: A New Electrode Material for Supercapacitors. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600412	3.1	7

112	Influence of pH and ionic strength on flocculation of clay suspensions with cationic xylan copolymer. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 530, 20-32	5.1	27
111	Development of High-Voltage Aqueous Electrochemical Energy Storage Devices. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700279	4.6	21
110	Aluminum-based materials for advanced battery systems. <i>Science China Materials</i> , 2017 , 60, 577-607	7.1	4
109	Fabrication Methods of Porous Carbon Materials and Separator Membranes for Lithium-Sulfur Batteries: Development and Future Perspectives. <i>Small Methods</i> , 2017 , 1, 1700089	12.8	51
108	Thermophilic membrane bioreactors: A review. <i>Bioresource Technology</i> , 2017 , 243, 1180-1193	11	32
107	One Dimensional Silver-based Nanomaterials: Preparations and Electrochemical Applications. <i>Small</i> , 2017 , 13, 1701091	11	42
106	Pretreatment and in Situ Fly Ash Systems for Improving the Performance of Sequencing Batch Reactor in Treating Thermomechanical Pulping Effluent. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 6932-6939	8.3	8
105	Fabrication of Metal Molybdate Micro/Nanomaterials for Electrochemical Energy Storage. <i>Small</i> , 2017 , 13, 1700917	11	87
104	Phosphorus-based materials for high-performance rechargeable batteries. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 1424-1444	6.8	28
103	High-Performance Flexible Solid-State Asymmetric Supercapacitors based on Ordered Mesoporous Cobalt Oxide. <i>Energy Technology</i> , 2017 , 5, 544-548	3.5	13
102	Noble metal-based materials in high-performance supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 33-51	6.8	117
101	Tall oil production from black liquor: Challenges and opportunities. <i>Separation and Purification Technology</i> , 2017 , 175, 469-480	8.3	36
100	Synthetic methods and electrochemical applications for transition metal phosphide nanomaterials. <i>RSC Advances</i> , 2016 , 6, 87188-87212	3.7	48
99	Tin-based nanomaterials for electrochemical energy storage. <i>RSC Advances</i> , 2016 , 6, 95449-95468	3.7	44
98	Flexible Supercapacitors: A Simple Approach to Boost Capacitance: Flexible Supercapacitors Based on Manganese Oxides@MOFs via Chemically Induced In Situ Self-Transformation (Adv. Mater. 26/2016). <i>Advanced Materials</i> , 2016 , 28, 5241	24	14
97	High performance of electrochemical lithium storage batteries: ZnO-based nanomaterials for lithium-ion and lithium-sulfur batteries. <i>Nanoscale</i> , 2016 , 8, 18578-18595	7.7	110
96	Facile synthesis of an accordion-like Ni-MOF superstructure for high-performance flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 19078-19085	13	305
95	Preparation of dialdehyde cellulose nanocrystal as an adsorbent for creatinine. <i>Canadian Journal of Chemical Engineering</i> , 2016 , 94, 1435-1441	2.3	11

94	Mesoporous hybrid NiOx-MnOx nanoprisms for flexible solid-state asymmetric supercapacitors. <i>Dalton Transactions</i> , 2016 , 45, 10789-97	4.3	32
93	Facile synthesis of amorphous aluminum vanadate hierarchical microspheres for supercapacitors. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 791-797	6.8	70
92	High performance electrochemical capacitor materials focusing on nickel based materials. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 175-202	6.8	238
91	Synthesis and characterization of carboxymethylated xylan and its application as a dispersant. <i>Carbohydrate Polymers</i> , 2016 , 146, 26-35	10.3	42
90	Adsorption performance of creatinine on dialdehyde nanofibrillated cellulose derived from potato residues. <i>Biotechnology Progress</i> , 2016 , 32, 208-14	2.8	1
89	Production of Flocculant from Thermomechanical Pulping Lignin via Nitric Acid Treatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1954-1962	8.3	31
88	PDADMAC as a flocculant for lignosulfonate of NSSC pulping process. <i>Biotechnology Progress</i> , 2016 , 32, 686-91	2.8	20
87	A Simple Approach to Boost Capacitance: Flexible Supercapacitors Based on Manganese Oxides@MOFs via Chemically Induced In Situ Self-Transformation. <i>Advanced Materials</i> , 2016 , 28, 5242-8 ²⁴	19.0	190
86	Cationic xylan/METAC copolymer as a flocculant for clay suspensions. <i>RSC Advances</i> , 2016 , 6, 40258-40263	3.7	27
85	Sulfomethylated kraft lignin as a flocculant for cationic dye. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 503, 19-27	5.1	63
84	Mango stone-derived activated carbon with high sulfur loading as a cathode material for lithium-sulfur batteries. <i>RSC Advances</i> , 2016 , 6, 39918-39925	3.7	28
83	Porous dimanganese trioxide microflowers derived from microcoordinations for flexible solid-state asymmetric supercapacitors. <i>Nanoscale</i> , 2016 , 8, 11689-97	7.7	28
82	Acidification of prehydrolysis liquor and spent liquor of neutral sulfite semichemical pulping process. <i>Bioresource Technology</i> , 2016 , 218, 518-25	11	36
81	Metal/Graphitic Carbon Nitride Composites: Synthesis, Structures, and Applications. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 3305-3328	4.5	69
80	Extraction of Technical Lignins from Pulping Spent Liquors, Challenges and Opportunities. <i>Biofuels and Biorefineries</i> , 2016 , 35-54	0.3	18
79	Deposition of Nanostructured Fluorine-Doped Hydroxyapatite Coating from Aqueous Dispersion by Suspension Plasma Spray. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 2899-2904	3.8	9
78	Direct preparation of hierarchical macroporous BiC using SiO ₂ opal as both template and precursor and its application in water splitting. <i>Materials Technology</i> , 2016 , 31, 526-531	2.1	1
77	Electrospun-Technology-Derived High-Performance Electrochemical Energy Storage Devices. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2967-2995	4.5	33

76	Water soluble kraft lignin-acrylic acid copolymer: synthesis and characterization. <i>Green Chemistry</i> , 2015 , 17, 4355-4366	10	74
75	Production of carboxymethylated lignin and its application as a dispersant. <i>European Polymer Journal</i> , 2015 , 70, 371-383	5.2	66
74	Production of cationic xylan-METAC copolymer as a flocculant for textile industry. <i>Carbohydrate Polymers</i> , 2015 , 124, 229-36	10.3	47
73	Preparation of cationic softwood kraft lignin and its application in dye removal. <i>European Polymer Journal</i> , 2015 , 67, 335-345	5.2	72
72	Preparation of sulfomethylated softwood kraft lignin as a dispersant for cement admixture. <i>RSC Advances</i> , 2015 , 5, 47031-47039	3.7	47
71	Production of Water-Soluble Hardwood Kraft Lignin via Sulfomethylation Using Formaldehyde and Sodium Sulfite. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1172-1182	8.3	74
70	Uniform manganese hexacyanoferrate hydrate nanocubes featuring superior performance for low-cost supercapacitors and nonenzymatic electrochemical sensors. <i>Nanoscale</i> , 2015 , 7, 16012-9	7.7	79
69	Characterization of four different lignins as a first step toward the identification of suitable end-use applications. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	19
68	Production of lignosulfonate in NSSC-based biorefinery. <i>Biotechnology Progress</i> , 2015 , 31, 1508-14	2.8	8
67	Separation of lignosulfonate from spent liquor of neutral sulphite semichemical pulping process via surfactant treatment. <i>Separation and Purification Technology</i> , 2015 , 151, 39-46	8.3	12
66	Process for Treating Spent Liquor of the TMP Process with Biomass-Based Fly Ash. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 7301-7308	3.9	12
65	Cationic Hemicellulose As a Product of Dissolving Pulp Based Biorefinery. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 1426-1432	3.9	7
64	A review on engineering of cellulosic cigarette paper to reduce carbon monoxide delivery of cigarettes. <i>Carbohydrate Polymers</i> , 2014 , 101, 769-75	10.3	10
63	Recent advancements in the production of hydroxymethylfurfural. <i>RSC Advances</i> , 2014 , 4, 2037-2050	3.7	85
62	Production of modified bentonite via adsorbing lignocelluloses from spent liquor of NSSC process. <i>Bioresource Technology</i> , 2014 , 174, 152-8	11	15
61	Isolating lignin from spent liquor of thermomechanical pulping process via adsorption. <i>Environmental Technology (United Kingdom)</i> , 2014 , 35, 2597-603	2.6	18
60	Biopolymers for surface engineering of paper-based products. <i>Cellulose</i> , 2014 , 21, 3145-3160	5.5	46
59	Separation of lignocelluloses from spent liquor of NSSC pulping process via adsorption. <i>Journal of Environmental Management</i> , 2014 , 136, 62-7	7.9	11

58	A combined adsorption and flocculation process for producing lignocellulosic complexes from spent liquors of neutral sulfite semichemical pulping process. <i>Bioresource Technology</i> , 2014 , 159, 373-9	11	18
57	Simulation analysis of producing xylitol from hemicelluloses of pre-hydrolysis liquor. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 1563-1570	5.5	20
56	A process for producing lignocellulosic flocs from NSSC spent liquor. <i>Journal of Biotechnology</i> , 2014 , 173, 19-23	3.7	16
55	Improving the adsorption of lignocelluloses of prehydrolysis liquor on precipitated calcium carbonate. <i>Carbohydrate Polymers</i> , 2013 , 92, 2103-10	10.3	23
54	Adsorption of lignocelluloses of model pre-hydrolysis liquor on activated carbon. <i>Bioresource Technology</i> , 2013 , 131, 308-14	11	46
53	Adsorption of lignocelluloses of pre-hydrolysis liquor on calcium carbonate to induce functional filler. <i>Carbohydrate Polymers</i> , 2013 , 94, 531-8	10.3	23
52	Recent advancements in various steps of ethanol, butanol, and isobutanol productions from woody materials. <i>Biotechnology Progress</i> , 2013 , 29, 297-310	2.8	27
51	Production of Biofuels from Cellulose of Woody Biomass 2013 ,		5
50	Complex Formation of PEO and Lignin in Prehydrolysis Liquor and its Enhancing Effect on Lignin Removal. <i>BioResources</i> , 2013 , 8,	1.3	5
49	Editorial (Hot Topic: Recent Advancements in Biorefinery: From Biomass to Bioproduct and Biofuel). <i>Current Organic Chemistry</i> , 2013 , 17, 1569-1569	1.7	3
48	Removal of Acetic Acid from Spent Sulfite Liquor Using Anion Exchange Resin for Effective Xylose Fermentation with <i>Pichia stipitis</i> . <i>BioResources</i> , 2013 , 8,	1.3	15
47	Pulping of Non-wood and Its Related Biorefinery Potential in Bangladesh: A Review. <i>Current Organic Chemistry</i> , 2013 , 17, 1570-1576	1.7	12
46	A Review on the Use of Lignocellulose-derived Chemicals in Wet-end Application of Papermaking. <i>Current Organic Chemistry</i> , 2013 , 17, 1647-1654	1.7	12
45	Lime Treatment of Prehydrolysis Liquor from the Kraft-Based Dissolving Pulp Production Process. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 662-667	3.9	21
44	Optimizing the Poly Ethylene Oxide Flocculation Process for Isolating Lignin of Prehydrolysis Liquor of a Kraft-Based Dissolving Pulp Production Process. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 5330-5335	3.9	22
43	Removal of inhibitors from pre-hydrolysis liquor of kraft-based dissolving pulp production process using adsorption and flocculation processes. <i>Bioresource Technology</i> , 2012 , 116, 492-6	11	50
42	A process for isolating lignin of pre-hydrolysis liquor of kraft pulping process based on surfactant and calcium oxide treatments. <i>Biochemical Engineering Journal</i> , 2012 , 68, 19-24	4.2	26
41	An integrated process for removing the inhibitors of the prehydrolysis liquor of kraft-based dissolving pulp process via cationic polymer treatment. <i>Biotechnology Progress</i> , 2012 , 28, 998-1004	2.8	12

40	Ethanol Production via In-Situ Detoxification of Spent Sulfite Liquor. <i>Journal of Bioprocess Engineering and Biorefinery</i> , 2012 , 1, 105-112		6
39	Adsorption of Lignocelluloses Dissolved in Prehydrolysis Liquor of Kraft-Based Dissolving Pulp Process on Oxidized Activated Carbons. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 11706-11717	2.9	17
38	Quantitative analysis of cationic poly(vinyl alcohol) diffusion into the hairy structure of cellulose fiber pores: charge density effect. <i>Langmuir</i> , 2011 , 27, 13489-96	4	18
37	Application of hemicelluloses precipitated via ethanol treatment of pre-hydrolysis liquor in high-yield pulp. <i>Bioresource Technology</i> , 2011 , 102, 9613-8	11	43
36	Recovery of lignocelluloses from pre-hydrolysis liquor in the lime kiln of kraft-based dissolving pulp production process by adsorption to lime mud. <i>Bioresource Technology</i> , 2011 , 102, 10035-9	11	45
35	Chitosan as a flocculant for pre-hydrolysis liquor of kraft-based dissolving pulp production process. <i>Carbohydrate Polymers</i> , 2011 , 86, 1630-1636	10.3	49
34	Integrated Forest Biorefinery [Prehydrolysis/Dissolving Pulping Process. <i>ACS Symposium Series</i> , 2011 , 475-506	0.4	12
33	Integrated Forest Biorefinery [Sulfite Process. <i>ACS Symposium Series</i> , 2011 , 409-441	0.4	10
32	Preparation and characterization of cationic poly vinyl alcohol with a low degree of substitution. <i>European Polymer Journal</i> , 2011 , 47, 997-1004	5.2	8
31	Separation of lignocellulosic materials by combined processes of pre-hydrolysis and ethanol extraction. <i>Bioresource Technology</i> , 2011 , 102, 1264-9	11	101
30	A combined acidification/PEO flocculation process to improve the lignin removal from the pre-hydrolysis liquor of kraft-based dissolving pulp production process. <i>Bioresource Technology</i> , 2011 , 102, 5177-82	11	77
29	Isolation and cationization of hemicelluloses from pre-hydrolysis liquor of kraft-based dissolving pulp production process. <i>Biomass and Bioenergy</i> , 2011 , 35, 1789-1796	5.3	59
28	Using cationic polyvinyl alcohol (C-PVA) to improve the strength of wood-free papers containing high-yield pulp (HYP). <i>Holzforschung</i> , 2010 , 64,	2	8
27	Antimicrobial/Antimold polymer-grafted starches for recycled cellulose fibers. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2010 , 21, 1359-70	3.5	17
26	Debonding Performance of Various Cationic Surfactants on Networks Made of Bleached Kraft Fibers. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 11402-11407	3.9	8
25	Interaction of cationic modified poly vinyl alcohol with high yield pulp. <i>Cellulose</i> , 2010 , 17, 1021-1031	5.5	12
24	Simulating the impact of kraft pulping and bleaching parameters on Eucalyptus camaldulensis pulp properties using MATLAB. <i>Canadian Journal of Chemical Engineering</i> , 2010 , 88, n/a-n/a	2.3	1
23	Canola straw chemimechanical pulping for pulp and paper production. <i>Bioresource Technology</i> , 2010 , 101, 4193-7	11	36

22	Effect of cationic PVA characteristics on fiber and paper properties at saturation level of polymer adsorption. <i>Carbohydrate Polymers</i> , 2010 , 79, 423-428	10.3	28
21	Synergy of CMC and modified chitosan on strength properties of cellulosic fiber network. <i>Carbohydrate Polymers</i> , 2010 , 80, 208-214	10.3	44
20	Qualitative characterization of the diffusion of cationic-modified PVA into the cellulose fiber pores. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009 , 348, 59-63	5.1	7
19	Influence of Soda-Air AQ Pulping of Straw on Silica Precipitation, Paper Strength, and Performance of CPVA as a Dry Strength Additive. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 10190-10195	3.9	5
18	Treatment of Fractionated Fibers with Various Cationic-Modified Poly(vinyl alcohols) and Its Impact on Paper Properties. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 10485-10490	3.9	7
17	Cationic Alkoxylated Amine Surfactant as a Debonding Agent for Papers Made of Sulfite-Bleached Fibers. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 749-754	3.9	5
16	Complex formation of modified chitosan and carboxymethyl cellulose and its effect on paper properties. <i>Tappi Journal</i> , 2009 , 8, 29-35	0.5	15
15	The influence of charge density and molecular weight of cationic poly (vinyl alcohol) on paper properties. <i>Nordic Pulp and Paper Research Journal</i> , 2008 , 23, 285-291	1.1	17
14	Adsorption characteristics of cationic-modified poly (vinyl alcohol) on cellulose fibers: A qualitative analysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008 , 327, 127-133	5.1	30
13	Modified Metal-Organic Frameworks for Electrochemical Applications. <i>Small Structures</i> , 2100200	8.7	4
12	MXenes nanocomposites for energy storage and conversion. <i>Rare Metals</i> , 1	5.5	5
11	Nickel-Based Materials for Advanced Rechargeable Batteries. <i>Advanced Functional Materials</i> , 2107928	15.6	5
10	Dual-ligand and hard-soft-acid-base strategies to optimize metal-organic framework nanocrystals for stable electrochemical cycling performance. <i>National Science Review</i> ,	10.8	42
9	Metal-Organic Framework-Based Sulfur-Loaded Materials. <i>Energy and Environmental Materials</i> ,	13	3
8	Metal-Organic Frameworks Nanocomposites with Different Dimensionalities for Energy Conversion and Storage. <i>Advanced Energy Materials</i> , 2100346	21.8	25
7	Bimetallic Metal-Organic Framework with High-Adsorption Capacity toward Lithium Polysulfides for Lithium-Sulfur Batteries. <i>Energy and Environmental Materials</i> ,	13	15
6	Adsorption thermodynamics of cationic dye on hydrolysis lignin-acrylic acid adsorbent. <i>Biomass Conversion and Biorefinery</i> , 1	2.3	2
5	In situ establishment of Co/MoS ₂ heterostructures onto inverse opal-structured N,S-doped carbon hollow nanospheres: Interfacial and architectural dual engineering for efficient hydrogen evolution reaction. <i>SmartMat</i> ,	22.8	8

4	Two-Step Modification Pathway for Inducing Lignin-Derived Dispersants and Flocculants. <i>Waste and Biomass Valorization</i> ,1	3.2	1
3	Strategies to improve electrochemical performances of pristine metal-organic frameworks-based electrodes for lithium/sodium-ion batteries. <i>SmartMat</i> ,	22.8	9
2	Rapid construction of highly-dispersed cobalt nanoclusters embedded in hollow cubic carbon walls as an effective polysulfide promoter in high-energy lithium-sulfur batteries. <i>Nano Research</i> ,1	10	0
1	Interaction of lignin and hemicelluloses in hydrolysate and with stainless steel surface. <i>Wood Science and Technology</i> ,1	2.5	