Audrey Moores

List of Publications by Year
in descending order

117 papers	7,298 citations	87723 38 h-index	56606 83 g-index
147 all docs	147 docs citations	147 times ranked	9795 citing authors

#	Article	IF	Citations
1	Nanocellulose, a Versatile Green Platform: From Biosources to Materials and Their Applications. Chemical Reviews, 2018, 118, 11575-11625.	23.0	1,008
2	The plasmon band in noble metal nanoparticles: an introduction to theory and applications. New Journal of Chemistry, 2006, 30, 1121.	1.4	573
3	Review: nanocelluloses as versatile supports for metal nanoparticles and their applications in catalysis. Green Chemistry, 2016, 18, 622-637.	4.6	493
4	Applications of Plasmon-Enhanced Nanocatalysis to Organic Transformations. Chemical Reviews, 2020, 120, 986-1041.	23.0	333
5	Fe3O4 nanoparticles: a robust and magnetically recoverable catalyst for three-component coupling of aldehyde, alkyne and amine. Green Chemistry, 2010, 12, 570.	4.6	291
6	Cellulose nanocrystallites as an efficient support for nanoparticles of palladium: application for catalytichydrogenation and Heck coupling under mild conditions. Green Chemistry, 2011, 13, 288-291.	4.6	234
7	Bare magnetic nanoparticles: sustainable synthesis and applications in catalytic organic transformations. Green Chemistry, 2014, 16, 4493-4505.	4.6	229
8	Magnetic copperâ€“iron nanoparticles as simple heterogeneous catalysts for the azideâ€“alkyne click reaction in water. Green Chemistry, 2012, 14, 622.	4.6	186
9	Transfer Hydrogenation of Imines and Alkenes and Direct Reductive Amination of Aldehydes Catalyzed by Triazole-Derived Iridium(I) Carbene Complexes. Organometallics, 2007, 26, 1226-1230.	1.1	173
10	Fe₃O₄ Nanoparticle-Supported Copper(I) Pybox Catalyst: Magnetically Recoverable Catalyst for Enantioselective Direct-Addition of Terminal Alkynes to Imines. Organic Letters, 2011, 13, 442-445.	2.4	171
11	Cellulose Nanocrystals as Chiral Inducers: Enantioselective Catalysis and Transmission Electron Microscopy 3D Characterization. Journal of the American Chemical Society, 2015, 137, 6124-6127.	6.6	158
12	Systematic comparison of the size, surface characteristics and colloidal stability of zero valent iron nanoparticles pre- and post-grafted with common polymers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 390, 95-104.	2.3	156
13	Designing endocrine disruption out of the next generation of chemicals. Green Chemistry, 2013, 15, 181-198.	4.6	123
14	Catalysed low temperature H2 release from nitrogen heterocycles. New Journal of Chemistry, 2006, 30, 1675.	1.4	121
15	Mechanochemical Phosphorylation of Polymers and Synthesis of Flame-Retardant Cellulose Nanocrystals. ACS Sustainable Chemistry and Engineering, 2019, 7, 7951-7959.	3.2	98
16	Highly efficient iron(0) nanoparticle-catalyzed hydrogenation in water in flow. Green Chemistry, 2013, 15, 2141.	4.6	96
17	Mechanosynthesis of ultra-small monodisperse amine-stabilized gold nanoparticles with controllable size. Green Chemistry, 2014, 16, 86-89.	4.6	92
18	Iron-iron oxide coreâ€“shell nanoparticles are active and magnetically recyclable olefin and alkyne hydrogenation catalysts in protic and aqueous media. Chemical Communications, 2012, 48, 3360.	2.2	91

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19	New Insights into the Degradation Mechanism of Perfluorooctanoic Acid by Persulfate from Density Functional Theory and Experimental Data. Environmental Science & Technology, 2019, 53, 8672-8681.	4.6	91
20	Surface-Plasmon-Mediated Hydrogenation of Carbonyls Catalyzed by Silver Nanocubes under Visible Light. ACS Catalysis, 2017, 7, 6128-6133.	5.5	90
21	Mechanochemical synthesis of Au, Pd, Ru and Re nanoparticles with lignin as a bio-based reducing agent and stabilizing matrix. Faraday Discussions, 2014, 170, 155-167.	1.6	81
22	Chitin and chitosan on the nanoscale. Nanoscale Horizons, 2021, 6, 505-542.	4.1	76
23	Synthesis of high molecular weight chitosan from chitin by mechanochemistry and aging. Green Chemistry, 2019, 21, 3276-3285.	4.6	74
24	Synthesis of maleic and fumaric acids from furfural in the presence of betaine hydrochloride and hydrogen peroxide. Green Chemistry, 2017, 19, 98-101.	4.6	73
25	Plasmonic nanoparticles: Photocatalysts with a bright future. Current Opinion in Green and Sustainable Chemistry, 2019, 15, 60-66.	3.2	72
26	A Selective Chemical Sensor Based on the Plasmonic Response of Phosphinine-Stabilized Gold Nanoparticles Hosted on Periodically Organized Mesoporous Silica Thin Layers. Small, 2005, 1, 636-639.	5.2	71
27	Microwave-Assisted Synthesis of Magnetic Carboxymethyl Cellulose-Embedded Agâ€“Fe₃O₄ Nanocatalysts for Selective Carbonyl Hydrogenation. ACS Sustainable Chemistry and Engineering, 2016, 4, 965-973.	3.2	68
28	Study of metal nanoparticles stabilised by mixed ligand shell: a striking blue shift of the surface-plasmon band evidencing the formation of Janus nanoparticles. Journal of Materials Chemistry, 2007, 17, 3509.	6.7	63
29	Metallic Nanoparticles Hosted in Mesoporous Oxide Thin Films for Catalytic Applications. Small, 2006, 2, 1042-1045.	5.2	61
30	One-step, solvent-free mechanosynthesis of silver nanoparticle-infused lignin composites for use as highly active multidrug resistant antibacterial filters. RSC Advances, 2016, 6, 58365-58370.	1.7	61
31	Ruthenium nanoparticle catalysts stabilized in phosphonium and imidazolium ionic liquids: dependence of catalyst stability and activity on the ionicity of the ionic liquid. Green Chemistry, 2012, 14, 1736.	4.6	54
32	Functionalized Ionic Liquids for the Synthesis of Metal Nanoparticles and their Application in Catalysis. ChemCatChem, 2012, 4, 1534-1546.	1.8	54
33	Hollow iron oxide nanoshells are active and selective catalysts for the partial oxidation of styrene with molecular oxygen. Chemical Communications, 2014, 50, 12482-12485.	2.2	49
34	Transformation of 6:2 Fluorotelomer Sulfonate by Cobalt(II)-Activated Peroxymonosulfate. Environmental Science & Technology, 2020, 54, 4631-4640.	4.6	49
35	Sustainable Synthesis of Magnetic Ruthenium-Coated Iron Nanoparticles and Application in the Catalytic Transfer Hydrogenation of Ketones. ACS Sustainable Chemistry and Engineering, 2015, 3, 814-820.	3.2	46
36	Reversing aggregation: direct synthesis of nanocatalysts from bulk metal. Cellulose nanocrystals as active support to access efficient hydrogenation silver nanocatalysts. Green Chemistry, 2016, 18, 129-133.	4.6	46

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37	Improved Stability and Catalytic Activity of Palladium Nanoparticle Catalysts using Phosphineâ€Functionalized Imidazolium Ionic Liquids. Advanced Synthesis and Catalysis, 2011, 353, 3167-3177.	2.1	44
38	Rhodium nanoparticles stabilized with phosphine functionalized imidazolium ionic liquids as recyclable arene hydrogenation catalysts. Catalysis Today, 2012, 183, 96-100.	2.2	41
39	Mechanically Activated Solvent-Free Assembly of Ultrasmall Bi₂S₃ Nanoparticles: A Novel, Simple, and Sustainable Means To Access Chalcogenide Nanoparticles. Chemistry of Materials, 2017, 29, 7766-7773.	3.2	39
40	First X-ray Crystal Study and DFT Calculations of Anionic Î»4-Phosphinines. Organometallics, 2003, 22, 1960-1966.	1.1	38
41	Cellulose nanocrystals as non-innocent supports for the synthesis of ruthenium nanoparticles and their application to arene hydrogenation. RSC Advances, 2015, 5, 53207-53210.	1.7	37
42	Mechanochemical methods for the transfer of electrons and exchange of ions: inorganic reactivity from nanoparticles to organometallics. Chemical Society Reviews, 2021, 50, 8279-8318.	18.7	37
43	Phosphinine stabilised gold nanoparticles; synthesis and immobilisation on mesoporous materials. Chemical Communications, 2004, , 2842.	2.2	36
44	Magnetically Recoverable CuFe2O4 Nanoparticles as Highly Active Catalysts for Csp3-Csp and Csp3-Csp3 Oxidative Cross-Dehydrogenative Coupling. Synlett, 2013, 24, 1637-1642.	1.0	36
45	A 1-Methyl-Phosphininium Compound: Synthesis, X-Ray Crystal Structure, and DFT Calculations. Angewandte Chemie - International Edition, 2003, 42, 4940-4944.	7.2	35
46	Rhodium complexes stabilized by phosphine-functionalized phosphonium ionic liquids used as higher alkene hydroformylation catalysts: influence of the phosphonium headgroup on catalytic activity. Dalton Transactions, 2012, 41, 13533.	1.6	35
47	Bottom up, solid-phase syntheses of inorganic nanomaterials by mechanochemistry and aging. Current Opinion in Green and Sustainable Chemistry, 2018, 12, 33-37.	3.2	35
48	Advancing the Use of Sustainability Metrics in <i>ACS Sustainable Chemistry & Engineering</i>. ACS Sustainable Chemistry and Engineering, 2018, 6, 1-1.	3.2	34
49	Solvent-Free Mechanochemical Synthesis of Ultrasmall Nickel Phosphide Nanoparticles and Their Application as a Catalyst for the Hydrogen Evolution Reaction (HER). ACS Sustainable Chemistry and Engineering, 2020, 8, 12014-12024.	3.2	34
50	Shaping Effective Practices for Incorporating Sustainability Assessment in Manuscripts Submitted to <i>ACS Sustainable Chemistry & Engineering</i>: Catalysis and Catalytic Processes. ACS Sustainable Chemistry and Engineering, 2021, 9, 4936-4940.	3.2	34
51	Mechanochemical Metal-Free Transfer Hydrogenation of Carbonyls Using Polymethylhydrosiloxane as the Hydrogen Source. ACS Sustainable Chemistry and Engineering, 2017, 5, 11752-11760.	3.2	33
52	Î·5-Rhodium(I) Complexes of aÎ»4-Phosphinine Anion:Â Syntheses, X-ray Crystal Structures, and Application in the Catalyzed Hydroformylation of Olefins. Organometallics, 2005, 24, 508-513.	1.1	32
53	Transmission Electron Microscopy for the Characterization of Cellulose Nanocrystals. , 0, , .		32
54	Amine-Functionalized Mesoporous Silica as a Support for on-Demand Release of Copper in the A³-Coupling Reaction: Ultralow Concentration Catalysis and Confinement Effect. ACS Sustainable Chemistry and Engineering, 2019, 7, 8696-8705.	3.2	31

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55	Carbonyl Reduction and Biomass: A Case Study of Sustainable Catalysis. ACS Sustainable Chemistry and Engineering, 2019, 7, 10182-10197.	3.2	30
56	Carboxylated Chitosan Nanocrystals: A Synthetic Route and Application as Superior Support for Gold-Catalyzed Reactions. Biomacromolecules, 2020, 21, 2236-2245.	2.6	29
57	Effect of Conformational Changes on a One-Electron Reduction Process: Evidence of a One-Electron Pï£¿P Bond Formation in a Bis(phosphinine). Chemistry - A European Journal, 2004, 10, 4080-4090.	1.7	28
58	Experimental and theoretical study of phosphinine sulfides. New Journal of Chemistry, 2007, 31, 1493.	1.4	28
59	Water splitting catalyzed by titanium dioxide decorated with plasmonic nanoparticles. Pure and Applied Chemistry, 2017, 89, 1817-1827.	0.9	28
60	Amphiphilic dipyridinium-phosphotungstate as an efficient and recyclable catalyst for triphasic fatty ester epoxidation and oxidative cleavage with hydrogen peroxide. Green Chemistry, 2017, 19, 2855-2862.	4.6	26
61	New trends in sustainable nanocatalysis: Emerging use of earth abundant metals. Current Opinion in Green and Sustainable Chemistry, 2017, 7, 39-45.	3.2	26
62	Photocatalysis Meets Magnetism: Designing Magnetically Recoverable Supports for Visible-Light Photocatalysis. ACS Applied Materials & Interfaces, 2020, 12, 24895-24904.	4.0	26
63	An improved methodology for imaging cellulose nanocrystals by transmission electron microscopy. Nordic Pulp and Paper Research Journal, 2014, 29, 77-84.	0.3	25
64	Determination of sulfur and sulfate half-ester content in cellulose nanocrystals: an interlaboratory comparison. Metrologia, 2018, 55, 872-882.	0.6	25
65	Mechanochemical Transformations of Biomass into Functional Materials. ChemSusChem, 2022, 15, .	3.6	25
66	Solid-state mechanochemical Ï‰-functionalization of poly(ethylene glycol). Beilstein Journal of Organic Chemistry, 2017, 13, 1963-1968.	1.3	24
67	Mechanochemical amorphization of chitin: impact of apparatus material on performance and contamination. Beilstein Journal of Organic Chemistry, 2019, 15, 1217-1225.	1.3	24
68	Î·2-Palladium and Platinum(II) Complexes of a Î»4-Phosphinine Anion:Â Syntheses, X-ray Crystal Structures, and DFT Calculations. Organometallics, 2004, 23, 2870-2875.	1.1	23
69	Homogenous Meets Heterogenous and Electroâ€Catalysis: Ironâ€Nitrogen Molecular Complexes within Carbon Materials for Catalytic Applications. ChemCatChem, 2019, 11, 3602-3625.	1.8	22
70	Enhancing Singlet Oxygen Photocatalysis with Plasmonic Nanoparticles. ACS Applied Materials & Interfaces, 2021, 13, 35606-35616.	4.0	22
71	Density Functional Theory Calculations Decipher Complex Reaction Pathways of 6:2 Fluorotelomer Sulfonate to Perfluoroalkyl Carboxylates Initiated by Hydroxyl Radical. Environmental Science & Technology, 2021, 55, 16655-16664.	4.6	21
72	Synthesis and Reactivity Towards Cationic Group 11 Metal Centers of an Extended Silacalix-[3]-phosphinine Macrocycle. European Journal of Inorganic Chemistry, 2002, 2002, 2034-2039.	1.0	20

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73	The Power of the United Nations Sustainable Development Goals in Sustainable Chemistry and Engineering Research. ACS Sustainable Chemistry and Engineering, 2021, 9, 8015-8017.	3.2	20
74	Periodically organized mesoporous silica thin layers as host for phosphinines-stabilized gold nanoparticles: UVâ€"visible sensing of small thiols and phosphines. Thin Solid Films, 2006, 495, 280-285.	0.8	19
75	The CO/PC analogy in coordination chemistry and catalysis. Journal of Organometallic Chemistry, 2005, 690, 2407-2415.	0.8	17
76	Electron energy-loss spectroscopy (EELS) with a cold-field emission scanning electron microscope at low accelerating voltage in transmission mode. Ultramicroscopy, 2019, 203, 21-36.	0.8	17
77	Cadmium-Containing Quantum Dots Used in Electronic Displays: Implications for Toxicity and Environmental Transformations. ACS Applied Nano Materials, 2021, 4, 8417-8428.	2.4	17
78	Ligand Modified CuFe2O4 Nanoparticles as Magnetically Recoverable and Reusable Catalyst for Azide-Alkyne Click Condensation. Heterocycles, 2012, 86, 1023.	0.4	16
79	Shaping Effective Practices for Incorporating Sustainability Assessment in Manuscripts Submitted to <i>ACS Sustainable Chemistry & Engineering</i>: An Initiative by the Editors. ACS Sustainable Chemistry and Engineering, 2021, 9, 3977-3978.	3.2	16
80	Chitosan nanocrystals synthesis <i>via</i> aging and application towards alginate hydrogels for sustainable drug release. Green Chemistry, 2021, 23, 6527-6537.	4.6	16
81	Expectations for Manuscripts on Catalysis in <i>ACS Sustainable Chemistry & Engineering</i>. ACS Sustainable Chemistry and Engineering, 2020, 8, 4995-4996.	3.2	14
82	Magnetically Recoverable Iron Nanoparticle Catalyzed Cross-DehydrogenaÂtive Coupling (CDC) between Two CspÂ³-H Bonds Using Molecular Oxygen. Synlett, 2010, 2010, 2002-2008.	1.0	13
83	Cyclopropanation of diazoesters with styrene derivatives catalyzed by magnetically recoverable copper-plated iron nanoparticles. Tetrahedron, 2014, 70, 6162-6168.	1.0	13
84	Neutral and dianionic iron and ruthenium 1,4-diphosphabutadiene complexes. Chemical Communications, 2003, , 1914-1915.	2.2	12
85	Cu(II) Galvanic Reduction and Deposition onto Iron Nano- and Microparticles: Resulting Morphologies and Growth Mechanisms. Langmuir, 2015, 31, 789-798.	1.6	12
86	Making more with less: confinement effects for more sustainable chemical transformations. Green Chemistry, 2022, 24, 1404-1438.	4.6	12
87	Electron Transfer between Two Silyl-Substituted Phenylene Rings:â€‰ EPR/ENDOR Spectra, DFT Calculations, and Crystal Structure of the One-Electron Reduction Compound of a Di(m-silylphenylenedisiloxane). Journal of the American Chemical Society, 2003, 125, 4487-4494.	6.6	11
88	Siloxa-bridged-cyclophanes featuring benzene, thiophene and pyridine units. New Journal of Chemistry, 2003, 27, 994-999.	1.4	11
89	Thermodynamics Model for Mechanochemical Synthesis of Gold Nanoparticles: Implications for Solvent-Free Nanoparticle Production. ACS Applied Nano Materials, 2021, 4, 1886-1897.	2.4	11
90	Structural flexibility of formally d10 [M(biphosphinine)2]q complexesElectronic supplementary information (ESI) available: main geometrical parameters optimized for the structures whose energies are reported in Fig. 1. See http://www.rsc.org/suppdata/nj/b3/b316684h/. New Journal of Chemistry, 2004, 28, 838.	1.4	10

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91	Palladium nanoparticles supported on chitin-based nanomaterials as heterogeneous catalysts for the Heck coupling reaction. Beilstein Journal of Organic Chemistry, 2020, 16, 2477-2483.	1.3	10
92	Making Sustainability Assessment Accessible: Tools Developed by the ACS Green Chemistry Institute Pharmaceutical Roundtable. ACS Sustainable Chemistry and Engineering, 2021, 9, 16862-16864.	3.2	10
93	Photocatalysis on magnetic supports for singlet oxygen generation: Role of immobilization and photobleaching. Catalysis Today, 2023, 407, 52-58.	2.2	10
94	Four Years of ACS Sustainable Chemistry & Engineering: Reflections and New Developments. ACS Sustainable Chemistry and Engineering, 2017, 5, 1-2.	3.2	8
95	Mechanochemistry for sustainable and efficient dehydrogenation/hydrogenation. Canadian Journal of Chemistry, 2021, 99, 93-112.	0.6	8
96	Cyclopropanation of diazoesters with styrene derivatives catalyzed by magnetically recoverable copper-plated iron nanoparticles. Tetrahedron, 2014, 70, 8952-8958.	1.0	7
97	Mechanochemistry<i>vs.</i>solution growth: striking differences in bench stability of a cimetidine salt based on a synthetic method. CrystEngComm, 2018, 20, 7242-7247.	1.3	7
98	Novel Catalytic Materials for Energy and the Environment. ACS Sustainable Chemistry and Engineering, 2017, 5, 11124-11124.	3.2	6
99	The Evolution of ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2020, 8, 1-1.	3.2	6
100	Plasmon-Enhanced Hydrogenation of 1-Dodecene and Toluene Using Ruthenium-Coated Gold Nanoparticles. ACS Applied Nano Materials, 2021, 4, 1596-1603.	2.4	6
101	Why Wasnâ€™t My <i>ACS Sustainable Chemistry & Engineering</i> Manuscript Sent Out for Review?. ACS Sustainable Chemistry and Engineering, 2019, 7, 1-2.	3.2	5
102	Rational size control of gold nanoparticles employing an organometallic precursor [Au-Câ‰¡C- t-Bu]4 and tunable thiolate-functionalized ionic liquids in organic medium. Canadian Journal of Chemistry, 2012, 90, 145-152.	0.6	4
103	Plasmaâ€Made (Ni 0.5 Cu 0.5)Fe 2 O 4 Nanoparticles for Alcohol Amination under Microwave Heating. ChemCatChem, 2019, 11, 3959-3972.	1.8	4
104	Selective dihydroxylation of methyl oleate to methyl-9,10-dihydroxystearate in the presence of a recyclable tungsten based catalyst and hydrogen peroxide. New Journal of Chemistry, 2020, 44, 11507-11512.	1.4	4
105	Women in Green Chemistry and Engineering: Agents of Change Toward the Achievement of a Sustainable Future. ACS Sustainable Chemistry and Engineering, 2022, 10, 2859-2862.	3.2	3
106	Expectations for Manuscripts in ACS Sustainable Chemistry & Engineering: Scope Summary and Call for Creativity. ACS Sustainable Chemistry and Engineering, 2020, 8, 16046-16047.	3.2	2
107	Expectations for Manuscripts on Biomass Feedstocks and Processing in <i>ACS Sustainable Chemistry & Engineering</i>. ACS Sustainable Chemistry and Engineering, 2020, 8, 11031-11032.	3.2	2
108	ACS Sustainable Chemistry & Engineering Virtual Special Issue on N-Doped Carbon Materials: Synthesis and Sustainable Applications. ACS Sustainable Chemistry and Engineering, 2021, 9, 3975-3976.	3.2	2

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109	Ultra-fast Cu-based A3-coupling catalysts: faceted Cu2O microcrystals as efficient catalyst-delivery systems in batch and flow conditions. Canadian Journal of Chemistry, 0, , .	0.6	2
110	Are Substitutes to Cd-Based Quantum Dots in Displays More Sustainable, Effective, and Cost Competitive? An Alternatives Assessment Approach. ACS Sustainable Chemistry and Engineering, 2022, 10, 2294-2307.	3.2	2
111	Oxidative cyclization of linoleic acid in the presence of hydrogen peroxide and phosphotungstic acid. Molecular Catalysis, 2020, 493, 111084.	1.0	1
112	Building Pathways to a Sustainable Planet. ACS Sustainable Chemistry and Engineering, 2022, 10, 1-2.	3.2	1
113	Expectations for Perspectives in ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2021, 9, 16528-16530.	3.2	1
114	<i>ACS Sustainable Chemistry & Engineering</i>â€™s Impact Factor Continues To Rise. ACS Sustainable Chemistry and Engineering, 2017, 5, 5617-5617.	3.2	0
115	Remembering Professor, Academician, and Editor Lina Zhang. ACS Sustainable Chemistry and Engineering, 2020, 8, 16385-16385.	3.2	0
116	The Changing Structure of Scientific Communication: Expanding the Nature of Letters Submissions to ACS Sustainable Chemistry & Engineering. ACS Sustainable Chemistry and Engineering, 2020, 8, 8469-8470.	3.2	0
117	Mechanochemical synthesis of bismuth sulfide nanoparticles for their use as contrast probes in computed tomography imaging. Frontiers in Bioengineering and Biotechnology, 0, 4, .	2.0	0