Didier Astruc

List of Publications by Year
in descending order

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231	47,212	4942 84	1668 214
papers	citations	h-index	g-index

236	236	236	45321
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gold Nanoparticles:Â Assembly, Supramolecular Chemistry, Quantum-Size-Related Properties, and Applications toward Biology, Catalysis, and Nanotechnology. Chemical Reviews, 2004, 104, 293-346.	23.0	11,940
2	Nanoparticles as Recyclable Catalysts: The Frontier between Homogeneous and Heterogeneous Catalysis. Angewandte Chemie - International Edition, 2005, 44, 7852-7872.	7.2	2,848
3	Gold nanoparticles in nanomedicine: preparations, imaging, diagnostics, therapies and toxicity. Chemical Society Reviews, 2009, 38, 1759.	18.7	2,518
4	Dendrimers Designed for Functions: From Physical, Photophysical, and Supramolecular Properties to Applications in Sensing, Catalysis, Molecular Electronics, Photonics, and Nanomedicine. Chemical Reviews, 2010, 110, 1857-1959.	23.0	1,697
5	State of the Art and Prospects in Metalâ€“Organic Framework (MOF)-Based and MOF-Derived Nanocatalysis. Chemical Reviews, 2020, 120, 1438-1511.	23.0	1,505
6	The Golden Age of Transfer Hydrogenation. Chemical Reviews, 2015, 115, 6621-6686.	23.0	1,436
7	Dendritic Catalysts and Dendrimers in Catalysis. Chemical Reviews, 2001, 101, 2991-3024.	23.0	1,033
8	The copper(I)-catalyzed alkyne-azide cycloaddition (CuAAC) â€œclickâ€•reaction and its applications. An overview. Coordination Chemistry Reviews, 2011, 255, 2933-2945.	9.5	853
9	Atomically Precise Noble Metal Nanoclusters as Efficient Catalysts: A Bridge between Structure and Properties. Chemical Reviews, 2020, 120, 526-622.	23.0	849
10	Anisotropic Gold Nanoparticles: Synthesis, Properties, Applications, and Toxicity. Angewandte Chemie - International Edition, 2014, 53, 1756-1789.	7.2	793
11	State of the art in gold nanoparticle synthesis. Coordination Chemistry Reviews, 2013, 257, 638-665.	9.5	766
12	Palladium Nanoparticles as Efficient Green Homogeneous and Heterogeneous Carbonâ^'Carbon Coupling Precatalysts:Â A Unifying View. Inorganic Chemistry, 2007, 46, 1884-1894.	1.9	739
13	Fast-Growing Field of Magnetically Recyclable Nanocatalysts. Chemical Reviews, 2014, 114, 6949-6985.	23.0	693
14	Basic concepts and recent advances in nitrophenol reduction by gold- and other transition metal nanoparticles. Coordination Chemistry Reviews, 2015, 287, 114-136.	9.5	657
15	Nanogold plasmonic photocatalysis for organic synthesis and clean energy conversion. Chemical Society Reviews, 2014, 43, 7188-7216.	18.7	508
16	Recent advance in MXenes: A promising 2D material for catalysis, sensor and chemical adsorption. Coordination Chemistry Reviews, 2017, 352, 306-327.	9.5	484
17	The recent development of efficient Earth-abundant transition-metal nanocatalysts. Chemical Society Reviews, 2017, 46, 816-854.	18.7	458
18	The Dendritic Effect in Molecular Recognition:â€‰ Ferrocene Dendrimers and Their Use as Supramolecular Redox Sensors for the Recognition of Small Inorganic Anions. Journal of the American Chemical Society, 1997, 119, 2588-2589.	6.6	433

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19	Why is Ferrocene so Exceptional?. European Journal of Inorganic Chemistry, 2017, 2017, 6-29.	1.0	423
20	Nanocatalysts and other nanomaterials for water remediation from organic pollutants. Coordination Chemistry Reviews, 2020, 408, 213180.	9.5	389
21	Nanomaterials for removal of toxic elements from water. Coordination Chemistry Reviews, 2018, 356, 147-164.	9.5	362
22	Introduction: Nanoparticles in Catalysis. Chemical Reviews, 2020, 120, 461-463.	23.0	334
23	Click Assembly of 1,2,3-Triazole-Linked Dendrimers, Including Ferrocenyl Dendrimers, Which Sense Both Oxo Anions and Metal Cations. Angewandte Chemie - International Edition, 2007, 46, 872-877.	7.2	333
24	Click Dendrimers and Triazole-Related Aspects: Catalysts, Mechanism, Synthesis, and Functions. A Bridge between Dendritic Architectures and Nanomaterials. Accounts of Chemical Research, 2012, 45, 630-640.	7.6	310
25	â€œHomeopathicâ€•Catalytic Activity and Atomâ€Leaching Mechanism in Miyauraâ€“Suzuki Reactions under Ambient Conditions with Precise Dendrimerâ€Stabilized Pd Nanoparticles. Angewandte Chemie - International Edition, 2007, 46, 8644-8648.	7.2	306
26	â€œHomeopathicâ€•Palladium Nanoparticle Catalysis of Cross Carbonâ€“Carbon Coupling Reactions. Accounts of Chemical Research, 2014, 47, 494-503.	7.6	306
27	Highly Selective and Sharp Volcano-type Synergistic Ni₂Pt@ZIF-8-Catalyzed Hydrogen Evolution from Ammonia Borane Hydrolysis. Journal of the American Chemical Society, 2018, 140, 10034-10042.	6.6	306
28	Hydrolysis of Ammonia-Borane over Ni/ZIF-8 Nanocatalyst: High Efficiency, Mechanism, and Controlled Hydrogen Release. Journal of the American Chemical Society, 2017, 139, 11610-11615.	6.6	293
29	Metallocenes as references for the determination of redox potentials by cyclic voltammetry Â— Permethylated iron and cobalt sandwich complexes, inhibition by polyamine dendrimers, and the role of hydroxy-containing ferrocenes. Canadian Journal of Chemistry, 2006, 84, 288-299.	0.6	280
30	Metallocenyl Dendrimers and Their Applications in Molecular Electronics, Sensing, and Catalysis. Accounts of Chemical Research, 2008, 41, 841-856.	7.6	278
31	Electron-transfer processes in dendrimers and their implication in biology, catalysis, sensing and nanotechnology. Nature Chemistry, 2012, 4, 255-267.	6.6	275
32	Metal-catalyzed azide-alkyne â€œclickâ€•reactions: Mechanistic overview and recent trends. Coordination Chemistry Reviews, 2016, 316, 1-20.	9.5	271
33	Applications of vectorized gold nanoparticles to the diagnosis and therapy of cancer. Chemical Society Reviews, 2012, 41, 242-257.	18.7	251
34	Sodium borohydride stabilizes very active gold nanoparticle catalysts. Chemical Communications, 2014, 50, 14194-14196.	2.2	228
35	Nanoscopic Assemblies between Supramolecular Redox Active Metallodendrons and Gold Nanoparticles:Â Synthesis, Characterization, and Selective Recognition of H2PO4-, HSO4-, and Adenosine-5â€˜-Triphosphate (ATP2-) Anions. Journal of the American Chemical Society, 2003, 125, 2617-2628.	6.6	220
36	Recyclable Catalytic Dendrimer Nanoreactor for Part-Per-Million Cu^I Catalysis of â€œClickâ€• Chemistry in Water. Journal of the American Chemical Society, 2014, 136, 12092-12098.	6.6	219

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37	Syntheses, characterizations, and stereoelectronic stabilization of organometallic electron reservoirs: the 19-electron d7 redox catalysts .eta.5-C5R5Fe-.eta.6-C6R'6. Journal of the American Chemical Society, 1981, 103, 758-766.	6.6	216
38	Atomically precise copper nanoclusters and their applications. Coordination Chemistry Reviews, 2018, 359, 112-126.	9.5	216
39	A highly active and reusable copper(<scp>i</scp>)-tren catalyst for the â€œclickâ€•1,3-dipolar cycloaddition of azides and alkynes. Chemical Communications, 2008, , 741-743.	2.2	211
40	Supramolecular Gold Nanoparticles for the Redox Recognition of Oxoanions:â€‰ Syntheses, Titrations, Stereoelectronic Effects, and Selectivity. Journal of the American Chemical Society, 2002, 124, 1782-1789.	6.6	196
41	Recent developments of nanocatalyzed liquid-phase hydrogen generation. Chemical Society Reviews, 2021, 50, 3437-3484.	18.7	194
42	â€œClickâ€•Dendrimers: Synthesis, Redox Sensing of Pd(OAc)₂, and Remarkable Catalytic Hydrogenation Activity of Precise Pd Nanoparticles Stabilized by 1,2,3â€Triazoleâ€Containing Dendrimers. Chemistry - A European Journal, 2008, 14, 50-64.	1.7	188
43	Giant Dendritic Molecular Electrochrome Batteries with Ferrocenyl and Pentamethylferrocenyl Termini. Journal of the American Chemical Society, 2009, 131, 590-601.	6.6	174
44	Encapsulation and Stabilization of Gold Nanoparticles with â€œClickâ€•Polyethyleneglycol Dendrimers. Journal of the American Chemical Society, 2010, 132, 2729-2742.	6.6	157
45	Dramatic Synergy in CoPt Nanocatalysts Stabilized by â€œClickâ€•Dendrimers for Evolution of Hydrogen from Hydrolysis of Ammonia Borane. ACS Catalysis, 2019, 9, 1110-1119.	5.5	157
46	Catalysis by 1,2,3-triazole- and related transition-metal complexes. Coordination Chemistry Reviews, 2014, 272, 145-165.	9.5	148
47	Design and Remarkable Efficiency of the Robust Sandwich Cluster Composite Nanocatalysts ZIF-8@Au₂₅@ZIF-67. Journal of the American Chemical Society, 2020, 142, 4126-4130.	6.6	141
48	Organoiron electron-reservoir complexes. Accounts of Chemical Research, 1986, 19, 377-383.	7.6	140
49	Metallopolymers for advanced sustainable applications. Chemical Society Reviews, 2019, 48, 558-636.	18.7	139
50	Ferrocenyl-Terminated Redox Stars: Synthesis and Electrostatic Effects in Mixed-Valence Stabilization. Journal of the American Chemical Society, 2011, 133, 629-641.	6.6	137
51	Organometallic Molecular Trees as Multielectron and Multiproton Reservoirs: CpFe+-Induced Nonaallylation of Mesitylene and Phase-Transfer Catalyzed Synthesis of a Redox-Active Nonairon Complex. Angewandte Chemie International Edition in English, 1993, 32, 1075-1077.	4.4	136
52	Highly Efficient Transition Metal Nanoparticle Catalysts in Aqueous Solutions. Angewandte Chemie - International Edition, 2016, 55, 3091-3095.	7.2	130
53	Hydrogen Generation upon Nanocatalyzed Hydrolysis of Hydrogen-Rich Boron Derivatives: Recent Developments. Accounts of Chemical Research, 2020, 53, 2483-2493.	7.6	122
54	Construction of Giant Dendrimers Using a Tripodal Building Block. Journal of the American Chemical Society, 2003, 125, 7250-7257.	6.6	121

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55	Palladiumâ€“dodecanethiolate nanoparticles as stable and recyclable catalysts for the Suzukiâ€“Miyaura reaction of aryl halides under ambient conditions. Tetrahedron Letters, 2004, 45, 9443-9445.	0.7	121
56	Design, stabilization, and efficiency of organometallic "electron reservoirs". 19-Electron sandwiches .eta.5-C5R5FeI-.eta.6-C6R'6, a key class active in redox catalysis. Journal of the American Chemical Society, 1979, 101, 5445-5447.	6.6	118
57	Dendritic catalysisâ€”Basic concepts and recent trends. Coordination Chemistry Reviews, 2013, 257, 2317-2334.	9.5	118
58	Salt effects resulting from exchange between two ion pairs and their crucial role in reaction. Chemical Reviews, 1992, 92, 1141-1165.	23.0	117
59	Organoiron Route to a New Dendron for Fast Dendritic Syntheses Using Divergent and Convergent Methods. Journal of the American Chemical Society, 1999, 121, 2929-2930.	6.6	113
60	Supramolecular H-Bonded Assemblies of Redox-Active Metallodendrimers and Positive and Unusual Dendritic Effects on the Recognition of H2PO4-. Journal of the American Chemical Society, 2003, 125, 1150-1151.	6.6	112
61	A Polycationic Metallodendrimer with 24 [Fe(Î·5-C5Me5)(Î·6-N-Alkylaniline)]+ Termini That Recognizes Chloride and Bromide Anions. Angewandte Chemie - International Edition, 1999, 38, 1747-1751.	7.2	111
62	Supramolecular nanoreactors for catalysis. Coordination Chemistry Reviews, 2016, 324, 106-122.	9.5	111
63	How Do Redox Groups Behave around a Rigid Molecular Platform? Hexa(ferrocenylethynyl)benzenes and Their â€œElectrostaticâ€•Redox Chemistry. Angewandte Chemie - International Edition, 2009, 48, 3141-3145.	7.2	110
64	Magnetic and Dendritic Catalysts. Accounts of Chemical Research, 2015, 48, 1871-1880.	7.6	109
65	Electron-Transfer Chain Catalysis in Organotransition Metal Chemistry. Angewandte Chemie International Edition in English, 1988, 27, 643-660.	4.4	108
66	Metallodendritic Catalysis for Redox and Carboniï£¿Carbon Bond Formation Reactions: A Step towards Green Chemistry.. Advanced Synthesis and Catalysis, 2005, 347, 329-338.	2.1	108
67	Redox-stimuli-responsive drug delivery systems with supramolecular ferrocenyl-containing polymers for controlled release. Coordination Chemistry Reviews, 2018, 364, 51-85.	9.5	107
68	Metathesis Reactions: Recent Trends and Challenges. European Journal of Inorganic Chemistry, 2013, 2013, 4881-4908.	1.0	106
69	Organometallic electron reservoirs. 5. Novel mode of carbon-hydrogen activation using dioxygen via superoxide radical anion in solution and in the solid state with C5R5FeIC6R'6. Subsequent bond formation with carbon, silicon, phosphorus, manganese, iron, chromium, and molybdenum. Journal of the American Chemical Society, 1981, 103, 7502-7514.	6.6	102
70	Organometallic electron reservoirs. 7. One-step multiple formation of carbon-carbon bonds in CpFe+(arene) sandwiches and unusual C6Et6 geometry in the x-ray crystal structure of CpFe+(.eta.6-C6Et6) PF6-. Journal of the American Chemical Society, 1982, 104, 7549-7555.	6.6	102
71	Synthesis of Five Generations of Redox-Stable Pentamethylamidoferrocenyl Dendrimers and Comparison of Amidoferrocenyl- and Pentamethylamidoferrocenyl Dendrimers as Electrochemical Exoreceptors for the Selective Recognition of H2PO4â^', HSO4â^', and Adenosine 5â€²-Triphosphate (ATP) Anions: Stereoelectronic and Hydrophobic Roles of Cyclopentadienyl Permethylation. Chemistry - A European Journal, 2003, 9, 4371-4379.	1.7	102
72	Palladium catalysis using dendrimers: molecular catalysts versus nanoparticles. Tetrahedron: Asymmetry, 2010, 21, 1041-1054.	1.8	102

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73	Recent developments of metallic nanoparticle-graphene nanocatalysts. Progress in Materials Science, 2018, 94, 306-383.	16.0	102
74	Gold nanoparticles as electron reservoir redox catalysts for 4-nitrophenol reduction: a strong stereoelectronic ligand influence. Chemical Communications, 2014, 50, 10126-10129.	2.2	101
75	Docetaxel Nanotechnology in Anticancer Therapy. ChemMedChem, 2012, 7, 952-972.	1.6	100
76	How to very efficiently functionalize gold nanoparticles by â€œclickâ€•chemistry. Chemical Communications, 2008, , 5788.	2.2	99
77	Precise localization of metal nanoparticles in dendrimer nanosnakes or inner periphery and consequences in catalysis. Nature Communications, 2016, 7, 13152.	5.8	99
78	Synthesis and Coordination Chemistry of Ferrocenyl-1,2,3-triazolyl Ligands. Inorganic Chemistry, 2008, 47, 4903-4908.	1.9	98
79	Ferrocenylsilylation of dendrons: a fast convergent route to redox-stable ferrocene dendrimers. Chemical Communications, 2000, , 417-418.	2.2	97
80	Catalytically efficient palladium nanoparticles stabilized by â€œclickâ€•ferrocenyl dendrimers. Chemical Communications, 2007, , 4946.	2.2	96
81	Chiral pentaisopropylcyclopentadienyl and pentakis(1-ethylpropyl)cyclopentadienyl complexes: one-pot synthesis by formation of 10 carbon-carbon bonds from pentamethylcobalticinium. Journal of the American Chemical Society, 1990, 112, 4607-4609.	6.6	87
82	Click Syntheses of 1,2,3â€Triazolylbiferrocenyl Dendrimers and the Selective Roles of the Inner and Outer Ferrocenyl Groups in the Redox Recognition of ATP^{2â^'} and Pd²⁺. Angewandte Chemie - International Edition, 2010, 49, 8152-8156.	7.2	87
83	Biochar as a support for nanocatalysts and other reagents: Recent advances and applications. Coordination Chemistry Reviews, 2021, 426, 213585.	9.5	87
84	Organometallic electron reservoirs. Part 36. Binuclear electron reservoir complexes. Syntheses, reactivity, and electronic structure of the 37- and 38-electron fulvalene complexes. Journal of the American Chemical Society, 1989, 111, 5800-5809.	6.6	85
85	Dendronized triazolyl-containing ferrocenyl polymers as stabilizers of gold nanoparticles for recyclable two-phase reduction of 4-nitrophenol. Journal of Colloid and Interface Science, 2019, 533, 161-170.	5.0	85
86	One-, two- and three-electron reduction of C60using the electron-reservoir complex [FeI(C5H5)(C6Me6)]. Journal of the Chemical Society Chemical Communications, 1993, , 333-334.	2.0	84
87	Development of the Applications of Palladium on Charcoal in Organic Synthesis. Advanced Synthesis and Catalysis, 2018, 360, 3426-3459.	2.1	83
88	â€œClickâ€•Dendrimerâ€Stabilized Palladium Nanoparticles as a Green Catalyst Down to Parts per Million for Efficient Cï£¿C Crossâ€Coupling Reactions and Reduction of 4â€Nitrophenol. Advanced Synthesis and Catalysis, 2014, 356, 2525-2538.	2.1	82
89	Photoelectron study of electron-rich iron(I) cyclopentadienyl arene complexes and of the related iron(II) cyclopentadienyl cyclohexadienyl complexes. Organometallics, 1983, 2, 211-218.	1.1	79
90	Arene exchange by phosphorus donors in the 19-electron complexes FeICp(arene): kinetics, mechanism, and salt effects. Interconversion, radical-type reactions, and electron-transfer chemistry of the new 17-electron and 19-electron radicals FeICpLn (L = phosphine, phosphite; n = 2, 3). Journal of the American Chemical Society, 1990, 112, 5471-5483.	6.6	79

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91	The use of ferrocene in organometallic synthesis: A two-step preparation of cyclopentadienyliron acetonitrile and phosphine cations via photolysis of cyclopentadienyliron tricarbonyl or arene cations. Journal of Organometallic Chemistry, 1984, 272, 417-426.	0.8	78
92	From Galvanic to Antiâ€Galvanic Synthesis of Bimetallic Nanoparticles and Applications in Catalysis, Sensing, and Materials Science. Advanced Materials, 2017, 29, 1605305.	11.1	76
93	Tentacled Iron Sandwiches. Angewandte Chemie International Edition in English, 1988, 27, 1347-1349.	4.4	74
94	Cross Olefin Metathesis for the Selective Functionalization, Ferrocenylation, and Solubilization in Water of Olefin-Terminated Dendrimers, Polymers, and Gold Nanoparticles and for a Divergent Dendrimer Construction. Journal of the American Chemical Society, 2008, 130, 1495-1506.	6.6	74
95	Electron-transfer pathways in the reduction of d6 and d7 organoiron cations by lithium tetrahydroaluminate and sodium tetrahydroborate. Journal of the American Chemical Society, 1982, 104, 3755-3757.	6.6	73
96	A Highly Active and Magnetically Recoverable Tris(triazolyl)â€“Cu^I Catalyst for Alkyneâ€“Azide Cycloaddition Reactions. Chemistry - A European Journal, 2014, 20, 4047-4054.	1.7	73
97	Organodiiron electron reservoir complexes containing a polyaromatic ligand: syntheses, stabilization, delocalized mixed valences, and intramolecular coupling. Journal of the American Chemical Society, 1987, 109, 6504-6506.	6.6	72
98	Supramolecular redox-responsive ferrocene hydrogels and microgels. Coordination Chemistry Reviews, 2020, 419, 213406.	9.5	71
99	â€œClickâ€•dendrimers as efficient nanoreactors in aqueous solvent: Pd nanoparticle stabilization for sub-ppm Pd catalysis of Suzukiâ€“Miyaura reactions of aryl bromides. Chemical Communications, 2013, 49, 8169.	2.2	68
100	One-Pot Multifunctionalization of Polymethyl HydrocarbonÏ€ Ligands. Maximum Space Occupancy by Double Branching and Formation of Arboroles. Angewandte Chemie International Edition in English, 1992, 31, 458-460.	4.4	66
101	The Clicked Pyridylâ€Triazole Ligand: From Homogeneous to Robust, Recyclable Heterogeneous Monoâ€• and Polymetallic Palladium Catalysts for Efficient Suzukiâ€“Miyaura, Sonogashira, and Heck Reactions. Advanced Synthesis and Catalysis, 2013, 355, 129-142.	2.1	66
102	Novel reactions of dioxygen in organometallic chemistry. Hydrogen atom abstraction vs. dimerization of the 19-electron complexes .eta.5-cyclopentadienyliron(I) .eta.6-arene. Journal of the American Chemical Society, 1979, 101, 2240-2242.	6.6	64
103	Electron-transfer chemistry of the 20-electron complex bis(hexamethylbenzene)iron(0) [(.eta.6-C6Me6)2Fe(0)] and its strategic role in carbon-hydrogen bond activation and carbon-carbon bond formation. Journal of the American Chemical Society, 1984, 106, 2437-2439.	6.6	64
104	Catalyzed Hydrolysis of Tetrahydroxydiboron by Graphene Quantum Dot-Stabilized Transition-Metal Nanoparticles for Hydrogen Evolution. ACS Sustainable Chemistry and Engineering, 2020, 8, 7513-7522.	3.2	64
105	Electrochemical reduction of Î·5-cyclopentadienyl Fe+ Î·6-arene cations in basic media. Journal of Electroanalytical Chemistry and Interfacial Electrochemistry, 1981, 121, 241-253.	0.3	63
106	Assembly of Dendrimers with Redox-Active [{CpFe(Î¼3-CO)}4] Clusters at the Periphery and Their Application to Oxo-Anion and Adenosine-5â€²-Triphosphate Sensing. Angewandte Chemie - International Edition, 2006, 45, 132-136.	7.2	63
107	The Efficient Copper(I) (Hexabenzyl)tren Catalyst and Dendritic Analogues for Green â€œClickâ€•Reactions between Azides and Alkynes in Organic Solvent and in Water: Positive Dendritic Effects and Monometallic Mechanism. Advanced Synthesis and Catalysis, 2011, 353, 3434-3450.	2.1	62
108	Efficient and Magnetically Recoverable â€œClickâ€•PEGylated Î³â€Fe₂O₃â€“Pd Nanoparticle Catalysts for Suzukiâ€“Miyaura, Sonogashira, and Heck Reactions with Positive Dendritic Effects. Chemistry - A European Journal, 2015, 21, 1508-1519.	1.7	62

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109	Highly Efficient and Selective Co@ZIFâ€8 Nanocatalyst for Hydrogen Release from Sodium Borohydride Hydrolysis. ChemCatChem, 2019, 11, 1643-1649.	1.8	61
110	Nanoscale zero-valent iron intercalated 2D titanium carbides for removal of Cr(VI) in aqueous solution and the mechanistic aspect. Journal of Hazardous Materials, 2020, 388, 121761.	6.5	61
111	A recyclable ruthenium(ii) complex supported on magnetic nanoparticles: a regioselective catalyst for alkyneâ€“azide cycloaddition. Chemical Communications, 2013, 49, 6956.	2.2	60
112	Design and Applications of an Efficient Amphiphilic â€œClickâ€•Cu^I Catalyst in Water. ACS Catalysis, 2016, 6, 5424-5431.	5.5	59
113	Electronic Communication between Immobilized Ferrocenyl-Terminated Dendrimers. Journal of the American Chemical Society, 2009, 131, 6652-6653.	6.6	58
114	Molecular Sieving with Vertically Aligned Mesoporous Silica Films and Electronic Wiring through Isolating Nanochannels. Chemistry of Materials, 2016, 28, 2511-2514.	3.2	58
115	First 17â^'18â^'19-Electron Triads of Stable Isostructural Organometallic Complexes. The 17-Electron Complexes [Fe(C5R5)(arene)]2+(R = H or Me), a Novel Family of Strong Oxidants:Â Isolation, Characterization, Electronic Structure, and Redox Properties. Journal of the American Chemical Society, 1998, 120, 11693-11705.	6.6	57
116	Triple Câ^'H/Nâ^'H Activation by O2 for Molecular Engineering:â€‰ Heterobifunctionalization of the 19-Electron Redox Catalysts FeICp(arene). Journal of the American Chemical Society, 1997, 119, 11132-11133.	6.6	56
117	.eta.5-Benzyl: crystal structure, nucleophilic properties, and electron-transfer reactions of CpFe(.eta.5-C6Me5CH2), an intermediate in carbon-hydrogen activation by oxygen via O2-. Journal of the American Chemical Society, 1981, 103, 2431-2433.	6.6	55
118	Syntheses and applications of dendronized polymers. Progress in Polymer Science, 2019, 96, 43-105.	11.8	55
119	Dendrimerâ€Induced Molecular Catalysis in Water: The Example of Olefin Metathesis. Chemistry - A European Journal, 2010, 16, 11832-11835.	1.7	54
120	Cationic gold nanoparticles elicit mitochondrial dysfunction: a multi-omics study. Scientific Reports, 2019, 9, 4366.	1.6	54
121	Nanocatalyzed upcycling of the plastic wastes for a circular economy. Coordination Chemistry Reviews, 2022, 458, 214422.	9.5	54
122	Optimization of Cu catalysts for nitrophenol reduction, click reaction and alkyne coupling. Inorganic Chemistry Frontiers, 2020, 7, 939-945.	3.0	52
123	Multifunctional Redox Polymers: Electrochrome, Polyelectrolyte, Sensor, Electrode Modifier, Nanoparticle Stabilizer, and Catalyst Template. Angewandte Chemie - International Edition, 2014, 53, 8445-8449.	7.2	51
124	The Suzuki Reaction with Arylboron Compounds in Arene Chemistry. , 0, , 53-106.		50
125	Four Generations of Waterâ€Soluble Dendrimers with 9 to 243 Benzoate Tethers: Synthesis and Dendritic Effects on Their Ion Pairing with Acetylcholine, Benzyltriethylammonium, and Dopamine in Water. Chemistry - A European Journal, 2008, 14, 5577-5587.	1.7	50
126	â€œClickâ€•Synthesis of Nona-PEG-branched Triazole Dendrimers and Stabilization of Gold Nanoparticles That Efficiently Catalyze p-Nitrophenol Reduction. Inorganic Chemistry, 2014, 53, 6954-6961.	1.9	49

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127	Translocation of silver nanoparticles in theex vivohuman placenta perfusion model characterized by single particle ICP-MS. Nanoscale, 2018, 10, 11980-11991.	2.8	49
128	Turning waste into wealth: facile and green synthesis of carbon nanodots from pollutants and applications to bioimaging. Chemical Science, 2021, 12, 11722-11729.	3.7	48
129	Metallomacromolecules containing cobalt sandwich complexes: Synthesis and functional materials properties. Coordination Chemistry Reviews, 2017, 337, 34-79.	9.5	47
130	Giant Cobalticinium Dendrimers. Organometallics, 2009, 28, 2716-2723.	1.1	46
131	An efficient parts-per-million Î±-Fe₂O₃ nanocluster/graphene oxide catalyst for Suzukiâ€“Miyaura coupling reactions and 4-nitrophenol reduction in aqueous solution. Chemical Communications, 2017, 53, 644-646.	2.2	46
132	Tetrablock Metallopolymer Electrochromes. Angewandte Chemie - International Edition, 2018, 57, 2204-2208.	7.2	46
133	Insight into the Mechanism of the CuAAC Reaction by Capturing the Crucial Au₄Cu₄â€“Ï€-Alkyne Intermediate. Journal of the American Chemical Society, 2021, 143, 1768-1772.	6.6	45
134	Mixed-Valent Click Intertwined Polymer Units Containing Biferrocenium Chloride Side Chains Form Nanosnakes that Encapsulate Gold Nanoparticles. Journal of the American Chemical Society, 2014, 136, 13995-13998.	6.6	44
135	Metallodendrimers in three oxidation states with electronically interacting metals and stabilization of size-selected gold nanoparticles. Nature Communications, 2014, 5, 3489.	5.8	42
136	Robust, Efficient, and Recyclable Catalysts from the Impregnation of Preformed Dendrimers Containing Palladium Nanoparticles on a Magnetic Support. ChemCatChem, 2015, 7, 303-308.	1.8	41
137	Oxidative degradation of aqueous organic contaminants over shape-tunable MnO2 nanomaterials via peroxymonosulfate activation. Separation and Purification Technology, 2021, 275, 119141.	3.9	41
138	Use of an Electron-Reservoir Complex Together with Air to Generate N-Heterocyclic Carbenes. Journal of the American Chemical Society, 2006, 128, 5602-5603.	6.6	40
139	Living Ring-Opening Metathesisâ€“Polymerization Synthesis and Redox-Sensing Properties of Norbornene Polymers and Copolymers Containing Ferrocenyl and Tetraethylene Glycol Groups. Organometallics, 2014, 33, 4323-4335.	1.1	39
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