

# Bruno Chaudret

## List of Publications by Year in descending order

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219  
papers

14,193  
citations

18436

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229  
docs citations

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times ranked

11630  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Superlattices of Iron Nanocubes Synthesized from Fe[N(SiMe <sub>3</sub> ) <sub>2</sub> ] <sub>2</sub> . <i>Science</i> , 2004, 303, 821-823.  | 6.0  | 520       |
| 2  | Surface effects on the magnetic properties of ultrafine cobalt particles. <i>Physical Review B</i> , 1998, 57, 2925-2935.   | 1.1  | 516       |
| 3  | Ruthenium Nanoparticles inside Porous [Zn <sub>4</sub> O(bdc) <sub>3</sub> ] by Hydrogenolysis of Adsorbed [Ru(cod)(cot)]: A Solid-State Reference System for Surfactant-Stabilized Ruthenium Colloids. <i>Journal of the American Chemical Society</i> , 2008, 130, 6119-6130. | 6.6  | 348       |
| 4  | Ligand-Stabilized Ruthenium Nanoparticles: Synthesis, Organization, and Dynamics. <i>Journal of the American Chemical Society</i> , 2001, 123, 7584-7593.   | 6.6  | 336       |
| 5  | Shape Control of Thermodynamically Stable Cobalt Nanorods through Organometallic Chemistry. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 4286-4289.   | 7.2  | 335       |
| 6  | Optimal Size of Nanoparticles for Magnetic Hyperthermia: A Combined Theoretical and Experimental Study. <i>Advanced Functional Materials</i> , 2011, 21, 4573-4581.   | 7.8  | 309       |
| 7  | Improved water electrolysis using magnetic heating of Fe@Ni core-shell nanoparticles. <i>Nature Energy</i> , 2018, 3, 476-483.  | 19.8 | 299       |
| 8  | A Case for Enantioselective Allylic Alkylation Catalyzed by Palladium Nanoparticles. <i>Journal of the American Chemical Society</i> , 2004, 126, 1592-1593.  | 6.6  | 288       |
| 9  | Unprecedented Crystalline Super-Lattices of Monodisperse Cobalt Nanorods. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 5213-5216.   | 7.2  | 265       |
| 10 | Multimillimetre-large superlattices of air-stable iron-cobalt nanoparticles. <i>Nature Materials</i> , 2005, 4, 750-753.  | 13.3 | 262       |
| 11 | Surface Chemistry of InP Quantum Dots: A Comprehensive Study. <i>Journal of the American Chemical Society</i> , 2010, 132, 18147-18157.   | 6.6  | 208       |
| 12 | InP/ZnS Nanocrystals: Coupling NMR and XPS for Fine Surface and Interface Description. <i>Journal of the American Chemical Society</i> , 2012, 134, 19701-19708.  | 6.6  | 202       |
| 13 | Ruthenium Nanoparticles Stabilized by N-Heterocyclic Carbenes: Ligand Location and Influence on Reactivity. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 12080-12084.   | 7.2  | 199       |
| 14 | A Simple Chemical Route toward Monodisperse Iron Carbide Nanoparticles Displaying Tunable Magnetic and Unprecedented Hyperthermia Properties. <i>Nano Letters</i> , 2012, 12, 4722-4728.  | 4.5  | 185       |
| 15 | Increase of magnetic hyperthermia efficiency due to dipolar interactions in low-anisotropy magnetic nanoparticles: Theoretical and experimental results. <i>Physical Review B</i> , 2013, 87, .   | 1.1  | 184       |
| 16 | Influence of organic ligands on the stabilization of palladium nanoparticles. <i>Journal of Organometallic Chemistry</i> , 2004, 689, 4601-4610.  | 0.8  | 174       |
| 17 | Magnetic Enhancement in Nanoscale CoRh Particles. <i>Physical Review Letters</i> , 2002, 89, 037203.  | 2.9  | 163       |
| 18 | Preparation and characterization of organosols of monodispersed nanoscale palladium. Particle size effects in the binding geometry of adsorbed carbon monoxide. <i>Chemistry of Materials</i> , 1992, 4, 1234-1239.   | 3.2  | 154       |

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|----|---|-----|-----------|
| 19 | Organometallic Synthesis of Size-Controlled Polycrystalline Ruthenium Nanoparticles in the Presence of Alcohols. <i>Advanced Functional Materials</i> , 2003, 13, 118-126.  | 7.8 | 151       |
| 20 | Preparation of organic solutions or solid films of small particles of ruthenium, palladium, and platinum from organometallic precursors in the presence of cellulose derivatives. <i>Chemistry of Materials</i> , 1993, 5, 341-347. | 3.2 | 149       |
| 21 | Synthesis of monodispersed bimetallic palladium-copper nanoscale colloids. <i>Chemistry of Materials</i> , 1993, 5, 254-256.  | 3.2 | 148       |
| 22 | Organometallic approach to the synthesis and surface reactivity of noble metal nanoparticles. <i>Comptes Rendus Chimie</i> , 2003, 6, 1019-1034.  | 0.2 | 146       |
| 23 | Chemistry of bis(dihydrogen) ruthenium complexes and of their derivatives. <i>Coordination Chemistry Reviews</i> , 1998, 178-180, 381-407.  | 9.5 | 140       |
| 24 | Platinum nanoparticles stabilized by CO and octanethiol ligands or polymers: FT-IR, NMR, HREM and WAXS studies. <i>New Journal of Chemistry</i> , 1998, 22, 703-712.  | 1.4 | 140       |
| 25 | Shape Control of Platinum Nanoparticles. <i>Advanced Functional Materials</i> , 2007, 17, 2219-2228.  | 7.8 | 138       |
| 26 | Nanoscale Bimetallic Co <sub>x</sub> Pt <sub>1-x</sub> Particles Dispersed in Poly(vinylpyrrolidone): Synthesis from Organometallic Precursors and Characterization. <i>Journal of Physical Chemistry B</i> , 2000, 104, 695-702.   | 1.2 | 133       |
| 27 | Organized 3D-alkyl imidazolium ionic liquids could be used to control the size of in situ generated ruthenium nanoparticles?. <i>Journal of Materials Chemistry</i> , 2009, 19, 3624.   | 6.7 | 131       |
| 28 | Magnetic hyperthermia in single-domain monodisperse FeCo nanoparticles: Evidences for Stoner-Wohlfarth behavior and large losses. <i>Journal of Applied Physics</i> , 2009, 105, .  | 1.1 | 131       |
| 29 | Magnetically Induced Continuous CO <sub>2</sub> Hydrogenation Using Composite Iron Carbide Nanoparticles of Exceptionally High Heating Power. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15894-15898.             | 7.2 | 128       |
| 30 | Organometallic approach for the synthesis of nanostructures. <i>New Journal of Chemistry</i> , 2013, 37, 3374.  | 1.4 | 127       |
| 31 | NHC-stabilized ruthenium nanoparticles as new catalysts for the hydrogenation of aromatics. <i>Catalysis Science and Technology</i> , 2013, 3, 99-105.  | 2.1 | 126       |
| 32 | A New Synthetic Method toward Bimetallic Ruthenium Platinum Nanoparticles; Composition Induced Structural Changes. <i>Journal of Physical Chemistry B</i> , 1999, 103, 10098-10101.   | 1.2 | 125       |
| 33 | Direct NMR Evidence for the Presence of Mobile Surface Hydrides on Ruthenium Nanoparticles. <i>ChemPhysChem</i> , 2005, 6, 605-607.   | 1.0 | 122       |
| 34 | Regioselective and Stereospecific Deuteration of Bioactive Aza Compounds by the Use of Ruthenium Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 230-234.   | 7.2 | 122       |
| 35 | Reactions of Olefins with Ruthenium Hydride Nanoparticles: NMR Characterization, Hydride Titration, and Room-Temperature C-C Bond Activation. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 2074-2078.               | 7.2 | 121       |
| 36 | Iron Nanoparticle Growth in Organic Superstructures. <i>Journal of the American Chemical Society</i> , 2009, 131, 549-557.  | 6.6 | 121       |

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|----|--|-----|-----------|
| 37 | Enantiospecific C-H Activation Using Ruthenium Nanocatalysts. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10474-10477.  | 7.2 | 118       |
| 38 | Complex Nano-objects Displaying Both Magnetic and Catalytic Properties: A Proof of Concept for Magnetically Induced Heterogeneous Catalysis. <i>Nano Letters</i> , 2015, 15, 3241-3248.  | 4.5 | 116       |
| 39 | Synthesis, Neutron Structure, and Reactivity of the Bis(dihydrogen) Complex RuH <sub>2</sub> ( $\eta$ -2-H <sub>2</sub> ) <sub>2</sub> (PCyp <sub>3</sub> ) <sub>2</sub> Stabilized by Two Tricyclopentylphosphines. <i>Journal of the American Chemical Society</i> , 2005, 127, 17592-17593. | 6.6 | 113       |
| 40 | Highly Stable Water-Soluble Platinum Nanoparticles Stabilized by Hydrophilic N-Heterocyclic Carbenes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13220-13224.  | 7.2 | 112       |
| 41 | Synthesis, characterization and catalytic reactivity of ruthenium nanoparticles stabilized by chiral N-donor ligands. <i>New Journal of Chemistry</i> , 2006, 30, 115-122.   | 1.4 | 111       |
| 42 | Organometallic Ruthenium Nanoparticles: A Comparative Study of the Influence of the Stabilizer on their Characteristics and Reactivity. <i>ChemCatChem</i> , 2013, 5, 28-45.   | 1.8 | 108       |
| 43 | Large specific absorption rates in the magnetic hyperthermia properties of metallic iron nanocubes. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, L49-L52.   | 1.0 | 101       |
| 44 | Gold nanoparticles from self-assembled gold(i) amine precursors. <i>Chemical Communications</i> , 2000, , 1945-1946.   | 2.2 | 98        |
| 45 | Chemisorption on nickel nanoparticles of various shapes: Influence on magnetism. <i>Journal of Applied Physics</i> , 2003, 94, 6358-6365.  | 1.1 | 96        |
| 46 | Phosphine-Stabilized Ruthenium Nanoparticles: The Effect of the Nature of the Ligand in Catalysis. <i>ACS Catalysis</i> , 2012, 2, 317-321.  | 5.5 | 90        |
| 47 | The use of ultrasmall iron(0) nanoparticles as catalysts for the selective hydrogenation of unsaturated C=C bonds. <i>Chemical Communications</i> , 2013, 49, 3416.  | 2.2 | 89        |
| 48 | Platinum N-Heterocyclic Carbene Nanoparticles as New and Effective Catalysts for the Selective Hydrogenation of Nitroaromatics. <i>ChemCatChem</i> , 2014, 6, 87-90.   | 1.8 | 89        |
| 49 | Surface chemistry on colloidal metals: spectroscopic study of adsorption of small molecules. <i>Faraday Discussions</i> , 1991, 92, 255.   | 1.6 | 84        |
| 50 | Spontaneous Formation of Ordered 3D Superlattices of Nanocrystals from Polydisperse Colloidal Solutions. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 1945-1949.   | 7.2 | 81        |
| 51 | Organometallic Ruthenium Nanoparticles: Synthesis, Surface Chemistry, and Insights into Ligand Coordination. <i>Accounts of Chemical Research</i> , 2018, 51, 376-384.   | 7.6 | 79        |
| 52 | Tuning Complex Shapes in Platinum Nanoparticles: From Cubic Dendrites to Fivefold Stars. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 4690-4694.   | 7.2 | 78        |
| 53 | Shape Control of Thermodynamically Stable Cobalt Nanorods through Organometallic Chemistry. <i>Angewandte Chemie</i> , 2002, 114, 4462-4465.   | 1.6 | 77        |
| 54 | A new and specific mode of stabilization of metallic nanoparticles. <i>Chemical Communications</i> , 2008, , 3296.   | 2.2 | 77        |

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|----|--|------|-----------|
| 55 | Location and Dynamics of CO Co-ordination on Ru Nanoparticles: A Solid State NMR Study. <i>Catalysis Letters</i> , 2010, 140, 1-7.   | 1.4  | 77        |
| 56 | Full Characterization of Colloidal Solutions of Long Alkyl Chain Amine Stabilized ZnO Nanoparticles by NMR Spectroscopy: Surface State, Equilibria, and Affinity. <i>Chemistry - A European Journal</i> , 2012, 18, 5384-5393. | 1.7  | 76        |
| 57 | Surface Chemistry on Colloidal Metals. Reversible Adsorbate-Induced Surface Composition Changes in Colloidal Palladium-Copper Alloys. <i>Langmuir</i> , 1995, 11, 693-695.   | 1.6  | 73        |
| 58 | Ligand effects on the air stability of copper nanoparticles obtained from organometallic synthesis. <i>Journal of Materials Chemistry</i> , 2012, 22, 2279-2285.   | 6.7  | 73        |
| 59 | Use of long chain amine as a reducing agent for the synthesis of high quality monodisperse iron(0) nanoparticles. <i>Journal of Materials Chemistry</i> , 2011, 21, 13464.   | 6.7  | 71        |
| 60 | A novel stabilisation model for ruthenium nanoparticles in imidazolium ionic liquids: in situ spectroscopic and labelling evidence. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 4217.                               | 1.3  | 68        |
| 61 | Īf-H, Īf-C, and Īf-Si Bond Activation Catalyzed by Metal Nanoparticles. <i>Chemical Reviews</i> , 2020, 120, 1042-1084.  | 23.0 | 68        |
| 62 | Chemical Control of Structural and Magnetic Properties of Cobalt Nanoparticles. <i>Chemistry of Materials</i> , 2005, 17, 107-111.   | 3.2  | 66        |
| 63 | Hydrodeoxygenation Using Magnetic Induction: High Temperature Heterogeneous Catalysis in Solution. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11306-11310.   | 7.2  | 64        |
| 64 | Size-Specific Spin Configurations in Single Iron Nanomagnet: From Flower to Exotic Vortices. <i>Nano Letters</i> , 2015, 15, 6952-6957.  | 4.5  | 63        |
| 65 | Long-chain NHC-stabilized RuNPs as versatile catalysts for one-pot oxidation/hydrogenation reactions. <i>Chemical Communications</i> , 2016, 52, 4768-4771.  | 2.2  | 63        |
| 66 | Synthesis and magnetic properties of Co nanorod superlattices. <i>Materials Science and Engineering C</i> , 2007, 27, 1162-1166.   | 3.8  | 62        |
| 67 | The Big Impact of a Small Detail: Cobalt Nanocrystal Polymorphism as a Result of Precursor Addition Rate during Stock Solution Preparation. <i>Journal of the American Chemical Society</i> , 2012, 134, 17922-17931.          | 6.6  | 62        |
| 68 | Enhancing the Catalytic Properties of Ruthenium Nanoparticle-SILP Catalysts by Dilution with Iron. <i>ACS Catalysis</i> , 2016, 6, 3719-3726.  | 5.5  | 62        |
| 69 | Bimetallic Nanoparticles in Supported Ionic Liquid Phases as Multifunctional Catalysts for the Selective Hydrodeoxygenation of Aromatic Substrates. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12721-12726.  | 7.2  | 61        |
| 70 | Secondary phosphineoxides as pre-ligands for nanoparticle stabilization. <i>Catalysis Science and Technology</i> , 2013, 3, 595-599.   | 2.1  | 60        |
| 71 | Solution Epitaxial Growth of Cobalt Nanowires on Crystalline Substrates for Data Storage Densities beyond 1 Tbit/in <sup>2</sup> . <i>Nano Letters</i> , 2014, 14, 3481-3486.  | 4.5  | 59        |
| 72 | RuH <sub>2</sub> (H <sub>2</sub> ) <sub>2</sub> (PCy <sub>3</sub> ) <sub>2</sub> : a room temperature catalyst for the Murai reaction. <i>Journal of Molecular Catalysis A</i> , 2004, 212, 77-82.                             | 4.8  | 58        |

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|----|---|-----|-----------|
| 73 | NMR and INS Line Shapes of Transition Metal Hydrides in the Presence of Coherent and Incoherent Dihydrogen Exchange. <i>Journal of the American Chemical Society</i> , 1998, 120, 7929-7943.                  | 6.6 | 56        |
| 74 | NiFe Nanoparticles: A Soft Magnetic Material?. <i>Small</i> , 2007, 3, 451-458.   | 5.2 | 56        |
| 75 | Magnetism of single-crystalline Co nanorods. <i>Applied Physics Letters</i> , 2009, 95, .   | 1.5 | 56        |
| 76 | Uniform Ru nanoparticles on N-doped graphene for selective hydrogenation of fatty acids to alcohols. <i>Journal of Catalysis</i> , 2019, 377, 429-437.  | 3.1 | 55        |
| 77 | Carbohydrateâ€Derived 1,3â€Diphosphite Ligands as Chiral Nanoparticle Stabilizers: Promising Catalytic Systems for Asymmetric Hydrogenation. <i>ChemSusChem</i> , 2009, 2, 769-779.                           | 3.6 | 54        |
| 78 | New Route to Stabilize Ruthenium Nanoparticles with Nonâ€Soluble Chiral Nâ€Heterocyclic Carbenes. <i>Chemistry - A European Journal</i> , 2015, 21, 17495-17502.  | 1.7 | 54        |
| 79 | Engineering Ironâ€Nickel Nanoparticles for Magnetically Induced CO <sub>2</sub> Methanation in Continuous Flow. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 6187-6191.                       | 7.2 | 52        |
| 80 | PTAâ€Stabilized Ruthenium and Platinum Nanoparticles: Characterization and Investigation in Aqueous Biphasic Hydrogenation Catalysis. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 1229-1236. | 1.0 | 51        |
| 81 | Organometallic precursors of nano-objects, a critical view. <i>Dalton Transactions</i> , 2013, 42, 12546.   | 1.6 | 51        |
| 82 | A betaine adduct of N-heterocyclic carbene and carbodiimide, an efficient ligand to produce ultra-small ruthenium nanoparticles. <i>Chemical Communications</i> , 2015, 51, 4647-4650.                        | 2.2 | 51        |
| 83 | Surface Chemistry on Small Ruthenium Nanoparticles: Evidence for Site Selective Reactions and Influence of Ligands. <i>Chemistry - A European Journal</i> , 2014, 20, 1287-1297.                              | 1.7 | 50        |
| 84 | NHCâ€Stabilized Iridium Nanoparticles as Catalysts in Hydrogen Isotope Exchange Reactions of Anilines. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 3517-3522.                                | 7.2 | 50        |
| 85 | Platinum colloids stabilized by bifunctional ligands: self-organization and connection to gold. <i>Chemical Communications</i> , 2001, , 1474-1475.   | 2.2 | 49        |
| 86 | New Ru Nanoparticles Stabilized by Organosilane Fragments. <i>Chemistry of Materials</i> , 2004, 16, 4937-4941.   | 3.2 | 48        |
| 87 | Zwitterionic amidinates as effective ligands for platinum nanoparticle hydrogenation catalysts. <i>Chemical Science</i> , 2017, 8, 2931-2941.   | 3.7 | 48        |
| 88 | NHC-stabilised Rh nanoparticles: Surface study and application in the catalytic hydrogenation of aromatic substrates. <i>Journal of Catalysis</i> , 2017, 354, 113-127.                                       | 3.1 | 48        |
| 89 | Ruthenium-catalyzed hydrogen isotope exchange of C(sp <sup>3</sup> )â€H bonds directed by a sulfur atom. <i>Chemical Communications</i> , 2018, 54, 2986-2989.  | 2.2 | 48        |
| 90 | One-Pot Synthesis of Coreâ€Shell FeRh Nanoparticles. <i>Chemistry of Materials</i> , 2007, 19, 4624-4626.   | 3.2 | 46        |

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|-----|---|-----|-----------|
| 91  | Efficient Access to Deuterated and Tritiated Nucleobase Pharmaceuticals and Oligonucleotides using Hydrogen-Isotope Exchange. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4891-4895.   | 7.2 | 46        |
| 92  | Bridging the Gap between Homogeneous and Heterogeneous Catalysis: $\text{O}_2$ Ortho/Para $\text{H}_2$ Conversion, Hydrogen Isotope Scrambling, and Hydrogenation of Olefins by $\text{Ir}(\text{CO})\text{Cl}(\text{PPh}_3)_2$ . <i>Journal of the American Chemical Society</i> , 2004, 126, 8366-8367. | 6.6 | 45        |
| 93  | Hydrido-Ruthenium Cluster Complexes as Models for Reactive Surface Hydrogen Species of Ruthenium Nanoparticles. Solid-State $^2\text{H}$ NMR and Quantum Chemical Calculations. <i>Journal of the American Chemical Society</i> , 2010, 132, 11759-11767.   | 6.6 | 44        |
| 94  | Theoretical characterization of the surface composition of ruthenium nanoparticles in equilibrium with syngas. <i>Nanoscale</i> , 2016, 8, 10974-10992.   | 2.8 | 43        |
| 95  | Iron Under Pressure: $\text{Co}^0$ Tweezers and Remnant Magnetism. <i>Physical Review Letters</i> , 2011, 106, 247201.  | 2.9 | 42        |
| 96  | Tuning the Selectivity in the Hydrogenation of Aromatic Ketones Catalyzed by Similar Ruthenium and Rhodium Nanoparticles. <i>ChemCatChem</i> , 2014, 6, 3160-3168.  | 1.8 | 42        |
| 97  | Organometallic Ruthenium Nanoparticles as Model Catalysts for CO Hydrogenation: A Nuclear Magnetic Resonance and Ambient-Pressure X-ray Photoelectron Spectroscopy Study. <i>ACS Catalysis</i> , 2014, 4, 3160-3168.  | 5.5 | 42        |
| 98  | Chemical Ordering in Bimetallic FeCo Nanoparticles: From a Direct Chemical Synthesis to Application As Efficient High-Frequency Magnetic Material. <i>Nano Letters</i> , 2019, 19, 1379-1386.   | 4.5 | 42        |
| 99  | An organometallic approach for the synthesis of water-soluble ruthenium and platinum nanoparticles. <i>Dalton Transactions</i> , 2009, , 10172.   | 1.6 | 41        |
| 100 | Monitoring the Coordination of Amine Ligands on Silver Nanoparticles Using NMR and SERS. <i>Langmuir</i> , 2015, 31, 1362-1367.   | 1.6 | 41        |
| 101 | Enantioselective hydrogenation of ketones by iridium nanoparticles ligated with chiral secondary phosphine oxides. <i>Catalysis Science and Technology</i> , 2016, 6, 3758-3766.  | 2.1 | 41        |
| 102 | Water-Dispersible and Biocompatible Iron Carbide Nanoparticles with High Specific Absorption Rate. <i>ACS Nano</i> , 2019, 13, 2870-2878.   | 7.3 | 41        |
| 103 | Synthesis of well-dispersed ruthenium nanoparticles inside mesostructured porous silica under mild conditions. <i>Microporous and Mesoporous Materials</i> , 2005, 79, 185-194.   | 2.2 | 40        |
| 104 | Tuning the Composition of FeCo Nanoparticle Heating Agents for Magnetically Induced Catalysis. <i>ACS Applied Nano Materials</i> , 2020, 3, 3767-3778.  | 2.4 | 40        |
| 105 | Organometallic Nanoparticles of Metals or Metal Oxides. <i>Oil and Gas Science and Technology</i> , 2007, 62, 799-817.  | 1.4 | 38        |
| 106 | Copper nanoparticles and organometallic chemical liquid deposition (OMCLD) for substrate metallization. <i>Journal of Materials Chemistry</i> , 2008, 18, 3084.   | 6.7 | 38        |
| 107 | Size-Dependent Activity and Selectivity of Fe/MCF-17 in the Catalytic Hydrogenation of Carbon Monoxide Using Fe(0) Nanoparticles as Precursors. <i>ACS Catalysis</i> , 2016, 6, 2496-2500.  | 5.5 | 38        |
| 108 | Knight Shift in $^{13}\text{C}$ NMR Resonances Confirms the Coordination of $\text{N}^{\text{HC}}$ Heterocyclic Carbene Ligands to Water-Soluble Palladium Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 865-869.   | 7.2 | 38        |

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|-----|---|-----|-----------|
| 109 | To heat or not to heat: a study of the performances of iron carbide nanoparticles in magnetic heating. <i>Nanoscale</i> , 2019, 11, 5402-5411.  | 2.8 | 38        |
| 110 | Hydrodeoxygenation and hydrogenolysis of biomass-based materials using FeNi catalysts and magnetic induction. <i>Green Chemistry</i> , 2021, 23, 2025-2036.   | 4.6 | 38        |
| 111 | From Molecular Complexes to Complex Metallic Nanostructuresâ€” <sup>2</sup> H Solid-State NMR Studies of Ruthenium-Containing Hydrogenation Catalysts. <i>ChemPhysChem</i> , 2013, 14, 3026-3033.   | 1.0 | 37        |
| 112 | Nanocatalyzed Hydrogen Isotope Exchange. <i>Accounts of Chemical Research</i> , 2021, 54, 1465-1480.  | 7.6 | 37        |
| 113 | Room-Temperature Tunnel Magnetoresistance in Self-Assembled Chemically Synthesized Metallic Iron Nanoparticles. <i>Nano Letters</i> , 2011, 11, 5128-5134.  | 4.5 | 36        |
| 114 | Monitoring of nanoparticle reactivity in solution: interaction of <sup>1</sup> lysine and Ru nanoparticles probed by chemical shift perturbation parallels regioselective H/D exchange. <i>Chemical Communications</i> , 2017, 53, 5850-5853. | 2.2 | 36        |
| 115 | Soluble Platinum Nanoparticles Ligated by Long-Chain N-Heterocyclic Carbenes as Catalysts. <i>Chemistry - A European Journal</i> , 2017, 23, 12779-12786.   | 1.7 | 36        |
| 116 | Silica coated iron nanoparticles: synthesis, interface control, magnetic and hyperthermia properties. <i>RSC Advances</i> , 2018, 8, 32146-32156.   | 1.7 | 36        |
| 117 | Ruthenium nanoparticles ligated by cholesterol-derived NHCs and their application in the hydrogenation of arenes. <i>Chemical Communications</i> , 2018, 54, 7070-7073.   | 2.2 | 36        |
| 118 | Size and composition effects in polymer-protected ultrafine bimetallic Pt <sub>x</sub> Ru <sub>1-x</sub> (0 < x < 1) particles. <i>Physical Review B</i> , 2001, 63, .  | 1.1 | 35        |
| 119 | hcp Co Nanowires Grown on Metallic Foams as Catalysts for Fischer-Tropsch Synthesis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10579-10583.  | 7.2 | 35        |
| 120 | Segregation at a small scale: synthesis of core-shell bimetallic RuPt nanoparticles, characterization and solid state NMR studies. <i>Journal of Materials Chemistry</i> , 2012, 22, 3578.  | 6.7 | 34        |
| 121 | NHC-stabilized Ru nanoparticles: Synthesis and surface studies. <i>Nano Structures Nano Objects</i> , 2016, 6, 39-45.   | 1.9 | 34        |
| 122 | Iron carbide or iron carbide/cobalt nanoparticles for magnetically-induced CO <sub>2</sub> hydrogenation over Ni/SiAlOx catalysts. <i>Catalysis Science and Technology</i> , 2019, 9, 2601-2607.  | 2.1 | 34        |
| 123 | <sup>2</sup> H Solid-State NMR of Ruthenium Complexes. <i>Journal of the American Chemical Society</i> , 2008, 130, 17502-17508.  | 6.6 | 33        |
| 124 | Magnetic anisotropy determination and magnetic hyperthermia properties of small Fe nanoparticles in the superparamagnetic regime. <i>Journal of Applied Physics</i> , 2010, 107, 09A324.  | 1.1 | 33        |
| 125 | TEM and HRTEM Evidence for the Role of Ligands in the Formation of Shape-Controlled Platinum Nanoparticles. <i>Small</i> , 2011, 7, 235-241.  | 5.2 | 33        |
| 126 | Synthesis of Water-Soluble Palladium Nanoparticles Stabilized by Sulfonated N-Heterocyclic Carbenes. <i>Chemistry - A European Journal</i> , 2017, 23, 13435-13444.   | 1.7 | 33        |



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|-----|---|-----|-----------|
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