List of Publications by Year in descending order

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ROMILALD POTEALL

#	Article	IF	CITATIONS
1	Supramolecular nanocapsules as two-fold stabilizers of outer-cavity sub-nanometric Ru NPs and inner-cavity ultra-small Ru clusters. Nanoscale Horizons, 2022, 7, 607-615.	8.0	2
2	Ruthenium Icosahedra and Ultrathin Platelets: The Role of Surface Chemistry on the Nanoparticle Structure. Chemistry of Materials, 2022, 34, 2931-2944.	6.7	5
3	A combined theoretical/experimental study highlighting the formation of carbides on Ru nanoparticles during CO hydrogenation. Nanoscale, 2021, 13, 6902-6915.	5.6	9
4	Bimetallic RuNi nanoparticles as catalysts for upgrading biomass: metal dilution and solvent effects on selectivity shifts. Green Chemistry, 2021, 23, 8480-8500.	9.0	9
5	Surface reactions of ammonia on ruthenium nanoparticles revealed by ¹⁵ N and ¹³ C solid-state NMR. Catalysis Science and Technology, 2021, 11, 4509-4520.	4.1	3
6	Nanocatalysts for High Selectivity Enyne Cyclization: Oxidative Surface Reorganization of Gold Sub-2-nm Nanoparticle Networks. Jacs Au, 2021, 1, 187-200.	7.9	12
7	Correlation between surface chemistry and magnetism in iron nanoparticles. Nanoscale Advances, 2021, 3, 4471-4481.	4.6	3
8	Recognition of the three-dimensional structure of small metal nanoparticles by a supervised artificial neural network. Theoretical Chemistry Accounts, 2021, 140, 1.	1.4	0
9	Hydrogen Isotope Exchange Catalyzed by Ru Nanocatalysts: Labelling of Complex Molecules Containing <i>N</i> â€Heterocycles and Reaction Mechanism Insights. Chemistry - A European Journal, 2020, 26, 4988-4996.	3.3	23
10	How Cul and Nal Interact with Faujasite Zeolite? A Theoretical Investigation. Journal of Physical Chemistry C, 2020, 124, 28026-28037.	3.1	2
11	Catalysis to discriminate single atoms from subnanometric ruthenium particles in ultra-high loading catalysts. Catalysis Science and Technology, 2020, 10, 4673-4683.	4.1	18
12	When organophosphorus ruthenium complexes covalently bind to ruthenium nanoparticles to form nanoscale hybrid materials. Chemical Communications, 2020, 56, 4059-4062.	4.1	3
13	Mo thio and oxo-thio molecular complexes film as self-healing catalyst for photocatalytic hydrogen evolution on 2D materials. Applied Catalysis B: Environmental, 2020, 278, 119288.	20.2	10
14	3D Ruthenium Nanoparticle Covalent Assemblies from Polymantane Ligands for Confined Catalysis. Chemistry of Materials, 2020, 32, 2365-2378.	6.7	11
15	DFT calculations in periodic boundary conditions of gas-phase acidities and of transition-metal anionic clusters: case study with carboxylate-stabilized ruthenium clusters. Theoretical Chemistry Accounts, 2019, 138, 1.	1.4	4
16	Blue wine, a color obtained with synthetic blue dye addition: two case studies. European Food Research and Technology, 2019, 245, 1777-1782.	3.3	4
17	Carboxylic acid-capped ruthenium nanoparticles: experimental and theoretical case study with ethanoic acid. Nanoscale, 2019, 11, 9392-9409.	5.6	19
18	Simple electron donor molecules based on triphenylamine and carbazole derivatives. Dyes and Pigments, 2018, 153, 275-283.	3.7	23

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19	Critical assessment of charge transfer estimates in non-covalent graphene doping. Theoretical Chemistry Accounts, 2018, 137, 1.	1.4	7
20	Ligand-Capped Ru Nanoparticles as Efficient Electrocatalyst for the Hydrogen Evolution Reaction. ACS Catalysis, 2018, 8, 11094-11102.	11.2	70
21	Ultrathin Gold Nanowires with the Polytetrahedral Structure of Bulk Manganese. ACS Nano, 2018, 12, 9521-9531.	14.6	21
22	Surprising Differences of Alkane Câ€H Activation Catalyzed by Ruthenium Nanoparticles: Complex Surfaceâ€Substrate Recognition?. ChemCatChem, 2018, 10, 4243-4247.	3.7	15
23	Zwitterionic amidinates as effective ligands for platinum nanoparticle hydrogenation catalysts. Chemical Science, 2017, 8, 2931-2941.	7.4	48
24	Surface-Engineering of Ultrathin Gold Nanowires: Tailored Self-Assembly and Enhanced Stability. Langmuir, 2017, 33, 5456-5463.	3.5	22
25	Chemical tuning of Coulomb blockade at room-temperature in ultra-small platinum nanoparticle self-assemblies. Materials Horizons, 2017, 4, 487-492.	12.2	14
26	Shape, electronic structure and steric effects of organometallic nanocatalysts: relevant tools to improve the synergy between theory and experiment. Dalton Transactions, 2017, 46, 378-395.	3.3	17
27	Tuning Coulomb blockade in ultra-small metallic nanoparticle self-assemblies, at room-temperature. , 2016, , .		0
28	Theoretical characterization of the surface composition of ruthenium nanoparticles in equilibrium with syngas. Nanoscale, 2016, 8, 10974-10992.	5.6	43
29	Enantiospecific CH Activation Using Ruthenium Nanocatalysts. Angewandte Chemie - International Edition, 2015, 54, 10474-10477.	13.8	118
30	Ultrathin Gold Nanowires: Soft-Templating versus Liquid Phase Synthesis, a Quantitative Study. Journal of Physical Chemistry C, 2015, 119, 4422-4430.	3.1	40
31	Grafting of lanthanide complexes on silica surfaces dehydroxylated at 200 °C: a theoretical investigation. New Journal of Chemistry, 2015, 39, 7703-7715.	2.8	15
32	Yttrium Dihydride Cation [YH ₂ (THF) ₂] ⁺ _{<i>n</i>} : Aggregate Formation and Reaction with (NNNN)-Type Macrocycles. Organometallics, 2015, 34, 3739-3747.	2.3	16
33	Tin-decorated ruthenium nanoparticles: a way to tune selectivity in hydrogenation reaction. Nanoscale, 2014, 6, 9806-9816.	5.6	24
34	Surfaces of a Colloidal Iron Nanoparticle in Its Chemical Environment: A DFT Description. Langmuir, 2014, 30, 11670-11680.	3.5	8
35	From Molecular Complexes to Complex Metallic Nanostructures— ² H Solidâ€State NMR Studies of Rutheniumâ€Containing Hydrogenation Catalysts. ChemPhysChem, 2013, 14, 3026-3033. 	2.1	37
36	Dinuclear gold(I) and gold(III) complexes involving di(N-heterocyclic carbene) ligands – Synthesis, characterization and DFT studies. Journal of Organometallic Chemistry, 2013, 745-746, 242-250.	1.8	20

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37	Ligand-Field Theory-Based Analysis of the Adsorption Properties of Ruthenium Nanoparticles. ACS Nano, 2013, 7, 9823-9835.	14.6	22
38	Investigation of the surface chemistry of phosphine-stabilized ruthenium nanoparticles – an advanced solid-state NMR study. Physical Chemistry Chemical Physics, 2013, 15, 17383.	2.8	29
39	Dimeric Gold Bis(carbene) Complexes by Transmetalation in Water. Organometallics, 2012, 31, 619-626.	2.3	65
40	Amideâ€Functionalized Bis(NHC) Systems: Anion Effect on Gold–Gold Interactions. European Journal of Inorganic Chemistry, 2012, 2012, 3892-3898.	2.0	23
41	DFT study of the Ring Opening Polymerization of ε-caprolactone by grafted lanthanide complexes: 1—Effect of the grafting mode on the reactivity of borohydride complexes. Dalton Transactions, 2011, 40, 11211.	3.3	24
42	DFT calculations of 29Si-NMR chemical shifts in Ru(ii) silyl complexes: Searching for trends and accurate values. Dalton Transactions, 2011, 40, 11321.	3.3	12
43	DFT study of the Ring Opening Polymerization of ε-caprolactone by grafted lanthanide complexes: 2—Effect of the initiator ligand. Dalton Transactions, 2011, 40, 11228.	3.3	23
44	A Density Functional Theory Study of Spectroscopic and Thermodynamic Properties of Surfacic Hydrides on Ru (0001) Model Surface: The Influence of the Coordination Modes and the Coverage. Journal of Physical Chemistry C, 2011, 115, 2169-2178.	3.1	30
45	2H NMR calculations on polynuclear transition metal complexes: on the influence of local symmetry and other factors. Physical Chemistry Chemical Physics, 2011, 13, 20199.	2.8	15
46	Ruthenium Nanoparticles Stabilized by Nâ€Heterocyclic Carbenes: Ligand Location and Influence on Reactivity. Angewandte Chemie - International Edition, 2011, 50, 12080-12084.	13.8	199
47	Theoretical and Experimental Studies on the Carbonâ€Nanotube Surface Oxidation by Nitric Acid: Interplay between Functionalization and Vacancy Enlargement. Chemistry - A European Journal, 2011, 17, 11467-11477.	3.3	93
48	Inside Cover: Theoretical and Experimental Studies on the Carbon-Nanotube Surface Oxidation by Nitric Acid: Interplay between Functionalization and Vacancy Enlargement (Chem. Eur. J. 41/2011). Chemistry - A European Journal, 2011, 17, 11354-11354.	3.3	1
49	Multicentered effective group potentials: ligand-field effects in organometallic clusters and dynamical study of chemical reactivity. Theoretical Chemistry Accounts, 2010, 126, 151-163.	1.4	2
50	Hydrido-Ruthenium Cluster Complexes as Models for Reactive Surface Hydrogen Species of Ruthenium Nanoparticles. Solid-State ² H NMR and Quantum Chemical Calculations. Journal of the American Chemical Society, 2010, 132, 11759-11767.	13.7	44
51	Grafting of Lanthanide Complexes on Silica Surfaces: A Theoretical Investigation. Journal of Physical Chemistry A, 2010, 114, 6322-6330.	2.5	29
52	Evaluation of new thiadiazoles and benzothiazoles as potential radioprotectors: Free radical scavenging activity in vitro and theoretical studies (QSAR, DFT). Free Radical Biology and Medicine, 2009, 46, 1139-1148.	2.9	53
53	Where does Hydrogen Adsorb on Ru Nanoparticles? A Powerful Joint ² H MASâ€NMR/DFT Approach. ChemPhysChem, 2009, 10, 2939-2942.	2.1	30
54	Ligand effect on the NMR, vibrational and structural properties of tetra- and hexanuclear ruthenium hydrido clusters: a theoretical investigation. Dalton Transactions, 2009, , 2142.	3.3	20

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55	DFT 2H quadrupolar coupling constants of ruthenium complexes: a good probe of the coordination of hydrides in conjuction with experiments. Physical Chemistry Chemical Physics, 2009, 11, 5657.	2.8	24
56	Theoretical proposal for an organometallic route to cis-peptides. New Journal of Chemistry, 2009, 33, 1833.	2.8	2
57	Synthesis and Reactivity of [Penta(4â€halogenophenyl)cyclopentadienyl][hydrotris(indazolyl)borato]ruthenium(II) Complexes: Rotationâ€ŀnduced Fosbury Flop in an Organometallic Molecular Turnstile. Chemistry - A European Iournal. 2008. 14. 8147-8156.	3.3	50
58	Rare-Earth Metal Alkyl and Hydride Complexes Stabilized by a Cyclen-Derived [NNNN] Macrocyclic Ancillary Ligand. Journal of the American Chemical Society, 2008, 130, 6920-6921.	13.7	99
59	DFT calculations of 1H and 13C NMR chemical shifts in transition metal hydrides. Dalton Transactions, 2008, , 3959.	3.3	37
60	Propensity for local folding induced by the urea fragment in short-chain oligomers. Organic and Biomolecular Chemistry, 2008, 6, 2596.	2.8	37
61	Estimating the "Steric Clash―at <i>cis</i> Peptide Bonds. Journal of Physical Chemistry B, 2008, 112, 7894-7902.	2.6	8
62	All-cisHelical Polypeptides. Journal of Organic Chemistry, 2007, 72, 8251-8258.	3.2	6
63	Amphiphilic Organic Ion Pairs in Solution: A Theoretical Study. ChemPhysChem, 2007, 8, 1524-1533.	2.1	11
64	What can we do with an effective group potential?. International Journal of Quantum Chemistry, 2006, 106, 727-733.	2.0	8
65	Ab initio molecular dynamics simulation of the UV absorption spectrum of \hat{l}^2 -ionone. Computational and Theoretical Chemistry, 2006, 771, 43-50.	1.5	9
66	The electronic spectrum of AgCl2: Ab initio benchmark versus density-functional theory calculations on the lowest ligand-field states including spin-orbit effects. Journal of Chemical Physics, 2006, 124, 034307.	3.0	11
67	Quantum chemistry-based interpretations on the lowest triplet state of luminescent lanthanides complexes. Part 2. Influence of the electrostatic interactions on the triplet state energy of terbium complexes. Computational and Theoretical Chemistry, 2005, 756, 151-162.	1.5	23
68	Comparative studies of the spectroscopy of CuCl2: DFT versus standard ab initio approaches. Journal of Chemical Physics, 2005, 122, 164306.	3.0	24
69	Absorption and solvatochromic properties of 2-methylisoindolin-1-one and related compounds: interplay between theory and experiments. New Journal of Chemistry, 2005, 29, 570.	2.8	5
70	All-cisCyclic Peptides. Journal of the American Chemical Society, 2005, 127, 13875-13889.	13.7	41
71	Theoretical Study of Ln(III) Complexes with Polyaza-Aromatic Ligands: Geometries of [LnL(H2O)n]3+Complexes and Successes and Failures of TD-DFT. Journal of Physical Chemistry A, 2005, 109, 4325-4330.	2.5	46
72	Progress Towards a Rotary Molecular Motor. AIP Conference Proceedings, 2004, , .	0.4	0

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73	Effective Group Potentials: A Powerful Tool for Hybrid QM/MM Methods?. ChemInform, 2004, 35, no.	0.0	Ο
74	Quantum chemistry-based interpretations on the lowest triplet state of luminescent lanthanides complexes. Part 1. Relation between the triplet state energy of hydroxamate complexes and their luminescence properties. Dalton Transactions, 2004, , 1334-1347.	3.3	146
75	Effective group potentials: a powerful tool for hybrid QM/MM methods?. Computational and Theoretical Chemistry, 2003, 632, 43-59.	1.5	19
76	Modeling a Carbonyl Group Taking into Account Back-Donation Effects through the Effective Group Potential Method. Journal of Physical Chemistry A, 2003, 107, 9393-9402.	2.5	7
77	Using Effective Group Potential Methodology for Predicting Organometallic Complex Properties. Journal of the American Chemical Society, 2003, 125, 11051-11061.	13.7	12
78	The effective group potential, a new method for the study of spectrum in large molecules: Tests and perspectives. Journal of Chemical Physics, 2002, 116, 4829.	3.0	11
79	Modeling C5H5with Atoms or Effective Group Potential in Lanthanide Complexes:Â Isolobality Not the Determining Factor. Journal of Physical Chemistry A, 2002, 106, 1797-1801.	2.5	31
80	Effective Group Potentials. 1. Method. Journal of Physical Chemistry A, 2001, 105, 198-205.	2.5	64
81	Effective Group Potentials. 2. Extraction and Transferability for Chemical Groups Involved in Covalent or Donorâ [~] Acceptor Bonds. Journal of Physical Chemistry A, 2001, 105, 206-214.	2.5	31
82	Recent Progress in Atomic and Chemical Group Effective Potentials. Journal of Chemical Information and Computer Sciences, 2001, 41, 43-49.	2.8	0
83	A new method for modelling spectator chemical groups in ab initio calculations: effective group potentials. Theoretical Chemistry Accounts, 2000, 104, 174-178.	1.4	25
84	Spectroscopic and theoretical studies of the excited states of fenofibric acid and ketoprofen in relation with their photosensitizing properties. New Journal of Chemistry, 2000, 24, 403-410.	2.8	40
85	An ab initio study of mutual neutralization in Na++H-collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 5451-5461.	1.5	56
86	Genetic algorithms for determining the topological structure of metallic clusters. European Physical Journal D, 1999, 9, 235-241.	1.3	8
87	Global structure of small Na clusters in different approaches. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 242, 163-168.	2.1	9
88	Structure, stability, and vibrational properties of small silver cluster. Zeitschrift Für Physik D-Atoms Molecules and Clusters, 1997, 40, 479-482.	1.0	66
89	Structure, stability, and vibrational properties of small silver cluster. , 1997, , 479-482.		2
90	Calculation of the Electronic Spectrum of Li2 Using Effective Core Pseudopotentials and I -Dependent Core Polarization Potentials. Journal of Molecular Spectroscopy, 1995, 171, 299-308.	1.2	61

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91	Isomerisation and phase transitions in small sodium clusters. Zeitschrift Für Physik D-Atoms Molecules and Clusters, 1994, 30, 57-68.	1.0	70
92	On the formation of transient (Na19)2 and (Na20)2 cluster dimers from molecular dynamics simulations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1994, 193, 75-81.	2.1	21
93	Monte Carlo ab initio simulation of the absorption spectrum of Na4. Chemical Physics, 1993, 175, 289-297.	1.9	4
94	Static, statistical, and dynamical properties of small sodium clusters. Zeitschrift Für Physik D-Atoms Molecules and Clusters, 1993, 26, 232-235.	1.0	1
95	Structural properties of sodium microclusters (n=4–34) using a Monte Carlo growth method. Journal of Chemical Physics, 1993, 98, 6540-6557.	3.0	63
96	Distance-dependent Hückel-type model for the study of sodium clusters. Physical Review B, 1992, 45, 1878-1888.	3.2	53