Gabriele Balducci

List of Publications by Year
in descending order

41 papers	2,373 citations	17 h-index	38 g-index
42 all docs	42 docs citations	42 times ranked	2747 citing authors

#	Article	IF	Citations
1	Taming multiple valency with density functionals:â€ƒA case study of defective ceria. Physical Review B, 2005, 71, .	3.2	383
2	Electronic and Atomistic Structures of Clean and Reduced Ceria Surfaces. Journal of Physical Chemistry B, 2005, 109, 22860-22867.	2.6	358
3	Computer Simulation Studies of Bulk Reduction and Oxygen Migration in CeO2â˜'ZrO2 Solid Solutions. Journal of Physical Chemistry B, 1997, 101, 1750-1753.	2.6	240
4	Surface and Reduction Energetics of the CeO2â˜'ZrO2 Catalysts. Journal of Physical Chemistry B, 1998, 102, 557-561.	2.6	208
5	Synthesis, molecular structure, and chemical behavior of hydrogen trans-bis(dimethyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 5 fully characterized chloride-dimethyl sulfoxide-ruthenium(III) complexes. Inorganic Chemistry, 1991, 30, 609-618.	4.0	196
6	Reply to â€œComment on â€˜Taming multiple valency with density functionals: A case study of defective ceria' â€• Physical Review B, 2005, 72, .	3.2	177
7	Bulk Reduction and Oxygen Migration in the Ceria-Based Oxides. Chemistry of Materials, 2000, 12, 677-681.	6.7	157
8	Metal-loaded CeO2-ZrO2 solid solutions as innovative catalysts for automotive catalytic converters. Catalysis Today, 1996, 29, 47-52.	4.4	85
9	Interaction of Hydrogen with Cerium Oxide Surfaces:â€‰ a Quantum Mechanical Computational Study. Journal of Physical Chemistry B, 2006, 110, 19380-19385.	2.6	85
10	Reduction Process in CeO2â˜'MO and CeO2â˜'M2O3Mixed Oxides:Â A Computer Simulation Study. Chemistry of Materials, 2003, 15, 3781-3785.	6.7	82
11	Electronic and Steric Influence of Axial and Equatorial Ligands in Vitamin B12Model Complexes Derived from Cobaloxime: Electrochemical and59Co-NMR Studies. Helvetica Chimica Acta, 1990, 73, 1469-1480.	1.6	41
12	Synthesis of hyperbranched low molecular weight polyethylene oils by an iminopyridine nickel(<scp>ii</scp>) catalyst. Polymer Chemistry, 2017, 8, 6443-6454.	3.9	37
13	Electrochemistry of iron(I) porphyrins in the presence of carbon monoxide. Comparison with zinc porphyrins. Inorganic Chemistry, 1994, 33, 1972-1978.	4.0	36
14	Palladium-Catalyzed Ethylene/Methyl Acrylate Copolymerization: Moving from the Acenaphthene to the Phenanthrene Skeleton of Î±-Diimine Ligands. Organometallics, 2019, 38, 3498-3511.	2.3	34
15	Palladiumâ€Catalyzed Ethylene/Methyl Acrylate Coâ€Oligomerization: The Effect of a New Nonsymmetrical Î±â€Diimine with the 1,4â€Diazabutadiene Skeleton. ChemCatChem, 2017, 9, 3402-3411.	3.7	24
16	Analogies and Differences in Palladiumâ€Catalyzed CO/Styrene and Ethylene/Methyl Acrylate Copolymerization Reactions. ChemCatChem, 2014, 6, 2403-2418.	3.7	22
17	Electronic properties of the boroxineâ€"gold interface: evidence of ultra-fast charge delocalization. Chemical Science, 2017, 8, 3789-3798.	7.4	18
18	Synthesis and characterization of isomeric binuclear double-bridged alkylidene-tetraphenyldiphosphine and diphenylphosphido-methylenediphenylphosphine iron nitrosyl complexes. Organometallics, 1987, 6, 308-316.	2.3	17

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19	Neutral 1,3,5â€Triazaâ€7â€phosphaadamantaneâ€Ruthenium(II) Complexes as Precursors for the Preparation of Highly Waterâ€Soluble Derivatives. European Journal of Inorganic Chemistry, 2016, 2016, 2850-2860.	2.0	16
20	New Cationic and Neutral Ru(II)- and Os(II)-dmso carbonyl Compounds. Inorganic Chemistry, 2013, 52, 12120-12130.	4.0	13
21	New Insight into a Deceptively Simple Reaction: The Coordination of bpy to Ru^{II}â€"Carbonyl Precursors â€" The Central Role of the <i>fac</i>â€[Ru(bpy)Cl(CO)₃]⁺ Intermediate and the <i>Chloride Rebound</i> Mechanism. European Journal of Inorganic Chemistry, 2015, 2015, 4296-4311.	2.0	13
22	Water-Soluble Ruthenium(II) Carbonyls with 1,3,5-Triaza-7-phosphoadamantane. Inorganic Chemistry, 2018, 57, 6991-7005.	4.0	13
23	Electrochemistry of cobalt mixed Schiff base/oxime chelates. Journal of Organometallic Chemistry, 1987, 330, 185-199.	1.8	12
24	Tunable â€œIn-Chainâ€• and â€œAt the End of the Branchesâ€• Methyl Acrylate Incorporation in the Polyolefin Skeleton through Pd(II) Catalysis. ACS Catalysis, 2022, 12, 3430-3443.	11.2	12
25	Structural and photophysical characterization of a tin(IV) porphyrinâ€"rhenium(I)(diimine) conjugate. Inorganica Chimica Acta, 2016, 439, 61-68.	2.4	10
26	Photolabile Ru Model Complexes with Chelating Diimine Ligands for Lightâ€Triggered Drug Release. European Journal of Inorganic Chemistry, 2018, 2018, 1469-1480.	2.0	10
27	Pd-Catalyzed CO/Vinyl Arene Copolymerization: when the Stereochemistry is Controlled by the Comonomer. Macromolecules, 2020, 53, 7783-7794.	4.8	10
28	Computational Study of Amino Mediated Molecular Interaction Evidenced in N 1s NEXAFS: 1,4-Diaminobenzene on Au (111). Journal of Physical Chemistry C, 2015, 119, 1988-1995.	3.1	9
29	¹⁵N NMR spectroscopy unambiguously establishes the coordination mode of the diimine linker 2-(2â€²-pyridyl)pyrimidine-4-carboxylic acid (cppH) in Ru(<scp>ii</scp>) complexes. Dalton Transactions, 2015, 44, 15671-15682.	3.3	9
30	Chemistry of the Methylamine Termination at a Gold Surface: From Autorecognition to Condensation. Journal of Physical Chemistry C, 2016, 120, 6104-6115.	3.1	8
31	Ru(<scp>ii</scp>)-Peptide bioconjugates with the cppH linker (cppH =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 272 Td (2-(2â€ stereochemical features between organic and aqueous solvents. Dalton Transactions, 2019, 48, 400-414.	3.3	8
32	Photolabile Ru^{II} Halfâ€Sandwich Complexes Suitable for Developing â€œCagedâ€• Compounds: Chemical Investigation and Unexpected Dinuclear Species with Bridging Diamine Ligands. European Journal of Inorganic Chemistry, 2013, 2013, 4743-4753.	2.0	7
33	Orthogonal Coordination Chemistry of PTA toward Ru(II) and Zn(II) (PTA =) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 187 Td (1,3,5 Networks. Inorganic Chemistry, 2020, 59, 4068-4079.	4.0	6
34	Rare Example of Stereoisomeric 2 + 2 Metallacycles of Porphyrins Featuring Chiral-at-Metal Octahedral Ruthenium Corners. Inorganic Chemistry, 2019, 58, 7357-7367.	4.0	5
35	Ruthenium(II) 1,4,7-trithiacyclononane complexes of curcumin and bisdemethoxycurcumin: Synthesis, characterization, and biological activity. Journal of Inorganic Biochemistry, 2021, 218, 111387.	3.5	5
36	cis-Locked Ru(II)-DMSO Precursors for the Microwave-Assisted Synthesis of Bis-Heteroleptic Polypyridyl Compounds. Inorganic Chemistry, 2021, 60, 7180-7195.	4.0	3

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37	Investigating the reactivity of neutral water-soluble Ru(ii)â€“PTA carbonyls towards the model imine ligands pyridine and 2,2â€²-bipyridine. RSC Advances, 2020, 10, 26717-26727.	3.6	2
38	A Flexible Synthetic Strategy for the Preparation of Heteroleptic Metallacycles of Porphyrins. Inorganic Chemistry, 2021, 60, 11503-11513.	4.0	1
39	Computational NEXAFS Characterization of Molecular Model Systems for 2D Boroxine Frameworks. Nanomaterials, 2022, 12, 1610.	4.1	1
40	Photolabile Ru Model Complexes with Chelating Diimine Ligands for Lightâ€Triggered Drug Release. European Journal of Inorganic Chemistry, 2018, 2018, 1447-1447.	2.0	0
41	Stereoisomeric Control in [RuCl 2 (PTA) 2 (2L)] Complexes (2L=2py or bpy): From Theoretical Calculations to a 2+2 Metallacycle of Pyridylporphyrins. European Journal of Inorganic Chemistry, 2021, 2021, 321-334.	2.0	0