

Alessandro Motta

List of Publications by Year in descending order

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65
papers

2,563
citations

159585

30
h-index

197818

49
g-index

67
all docs

67
docs citations

67
times ranked

3017
citing authors

#	ARTICLE	IF	CITATIONS
1	Atom-efficient regioselective 1,2-dearomatization of functionalized pyridines by an earth-abundant organolanthanide catalyst. <i>Nature Chemistry</i> , 2014, 6, 1100-1107.	13.6	184
2	Magnetic behaviour of TbPc ₂ single-molecule magnets chemically grafted on silicon surface. <i>Nature Communications</i> , 2014, 5, 4582.	12.8	115
3	Energetics and Mechanism of Organolanthanide-Mediated Aminoalkene Hydroamination/Cyclization. A Density Functional Theory Analysis. <i>Organometallics</i> , 2004, 23, 4097-4104.	2.3	109
4	Very Large Cooperative Effects in Heterobimetallic Titanium-Chromium Catalysts for Ethylene Polymerization/Copolymerization. <i>Journal of the American Chemical Society</i> , 2014, 136, 10460-10469.	13.7	105
5	Anchoring Molecular Magnets on the Si(100) Surface. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 4081-4084.	13.8	101
6	Synthesis, Characterization, and Heterobimetallic Cooperation in a Titanium-Chromium Catalyst for Highly Branched Polyethylenes. <i>Journal of the American Chemical Society</i> , 2013, 135, 8830-8833.	13.7	91
7	Ni(II) Phenoxyiminato Olefin Polymerization Catalysis: Striking Coordinative Modulation of Hyperbranched Polymer Microstructure and Stability by a Proximate Sulfonyl Group. <i>ACS Catalysis</i> , 2014, 4, 999-1003.	11.2	91
8	Surface structural-chemical characterization of a single-site d ⁰ heterogeneous arene hydrogenation catalyst having 100% active sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 413-418.	7.1	87
9	Organolanthanide-Catalyzed Hydroamination/Cyclization Reactions of Aminoalkynes. Computational Investigation of Mechanism, Lanthanide Identity, and Substituent Effects for a Very Exothermic C [≡] N Bond-Forming Process. <i>Organometallics</i> , 2006, 25, 5533-5539.	2.3	80
10	Benzene Selectivity in Competitive Arene Hydrogenation: Effects of Single-Site Catalyst-Acidic Oxide Surface Binding Geometry. <i>Journal of the American Chemical Society</i> , 2015, 137, 6770-6780.	13.7	76
11	Energetics and Mechanism of Organolanthanide-Mediated Phosphinoalkene Hydrophosphination/Cyclization. A Density Functional Theory Analysis. <i>Organometallics</i> , 2005, 24, 4995-5003.	2.3	71
12	Proximity and Cooperativity Effects in Binuclear d ⁰ Olefin Polymerization Catalysis. Theoretical Analysis of Structure and Reaction Mechanism. <i>Journal of the American Chemical Society</i> , 2009, 131, 3974-3984.	13.7	66
13	Highly branched polyethylene oligomers via group IV-catalysed polymerization in very nonpolar media. <i>Nature Catalysis</i> , 2019, 2, 236-242.	34.4	66
14	Exclusive recognition of sarcosine in water and urine by a cavitand-functionalized silicon surface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2263-2268.	7.1	61
15	Links Between Single-Site Heterogeneous and Homogeneous Catalysis. DFT Analysis of Pathways for Organozirconium Catalyst Chemisorptive Activation and Olefin Polymerization on γ -Alumina. <i>Journal of the American Chemical Society</i> , 2008, 130, 16533-16546.	13.7	58
16	Molecular Recognition on a Cavitand-Functionalized Silicon Surface. <i>Journal of the American Chemical Society</i> , 2009, 131, 7447-7455.	13.7	58
17	La[N(SiMe ₃) ₂] ₃ -Catalyzed Ester Reductions with Pinacolborane: Scope and Mechanism of Ester Cleavage. <i>ACS Catalysis</i> , 2019, 9, 9015-9024.	11.2	58
18	La[N(SiMe ₃) ₂] ₃ -Catalyzed Deoxygenative Reduction of Amides with Pinacolborane. Scope and Mechanism. <i>Journal of the American Chemical Society</i> , 2020, 142, 8019-8028.	13.7	58

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19	Single-Face/All-cis Arene Hydrogenation by a Supported Single-Site d ⁰ Organozirconium Catalyst. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5263-5267.	13.8	54
20	Site-Specific Anchoring of Tetrairon(III) Single Molecule Magnets on Functionalized Si(100) Surfaces. <i>Chemistry of Materials</i> , 2008, 20, 2405-2411.	6.7	47
21	Spectroscopic and Theoretical Study of the Grafting Modes of Phosphonic Acids on ZnO Nanorods. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5364-5372.	3.1	45
22	Pyridylamido Bi-Hafnium Olefin Polymerization Catalysis: Conformationally Supported Hf ^{IV} -Hf Enchainment Cooperativity. <i>ACS Catalysis</i> , 2015, 5, 5272-5282.	11.2	43
23	Grafting Cavitands on the Si(100) Surface. <i>Langmuir</i> , 2006, 22, 11126-11133.	3.5	41
24	Significant Polar Comonomer Enchainment in Zirconium-Catalyzed, Masking Reagent-Free, Ethylene Copolymerizations. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7030-7034.	13.8	37
25	Homoleptic Lanthanide Amide Catalysts for Organic Synthesis: Experiment and Theory. <i>ACS Catalysis</i> , 2021, 11, 2715-2734.	11.2	37
26	Self-Assembly of Nanosize Coordination Cages on Si(100) Surfaces. <i>Chemistry - A European Journal</i> , 2007, 13, 6891-6898.	3.3	36
27	Tunable luminescent properties of a europium complex monolayer. <i>Journal of Materials Chemistry</i> , 2009, 19, 3507.	6.7	36
28	Cavitand-Functionalized Porous Silicon as an Active Surface for Organophosphorus Vapor Detection. <i>Langmuir</i> , 2012, 28, 1782-1789.	3.5	36
29	Insights from experiment and theory into the electrochemical reduction mechanism of graphene oxide. <i>Electrochimica Acta</i> , 2019, 304, 231-238.	5.2	36
30	Stereochemical Control Mechanisms in Propylene Polymerization Mediated by C ₁ -Symmetric CGC Titanium Catalyst Centers. <i>Journal of the American Chemical Society</i> , 2007, 129, 7327-7338.	13.7	33
31	A Mechanistic Explanation of the Peculiar Amphiphobic Properties of Hybrid Organic-Inorganic Coatings by Combining XPS Characterization and DFT Modeling. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 19941-19947.	8.0	30
32	Distinctive Stereochemically Linked Cooperative Effects in Bimetallic Titanium Olefin Polymerization Catalysts. <i>Organometallics</i> , 2017, 36, 4403-4421.	2.3	30
33	Density Control of Dodecamanganese Clusters Anchored on Silicon(100). <i>Chemistry - A European Journal</i> , 2006, 12, 3558-3566.	3.3	26
34	Biocompatible <i>N</i> -acetyl cysteine reduces graphene oxide and persists at the surface as a green radical scavenger. <i>Chemical Communications</i> , 2019, 55, 4186-4189.	4.1	25
35	Group IV Organometallic Compounds Based on Dianionic Pincer-Ligands: Synthesis, Characterization, and Catalytic Activity in Intramolecular Hydroamination Reactions. <i>Chemistry - A European Journal</i> , 2013, 19, 4906-4921.	3.3	24
36	Molecular recognition of halogen-tagged aromatic VOCs at the air-silicon interface. <i>Chemical Communications</i> , 2010, 46, 288-290.	4.1	23

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37	Atom-Efficient Carbon ¹⁸ Oxygen Bond Formation Processes. DFT Analysis of the Intramolecular Hydroalkoxylation/Cyclization of Alkynyl Alcohols Mediated by Lanthanide Catalysts. <i>Organometallics</i> , 2010, 29, 2004-2012.	2.3	23
38	Mechanism of Organoscandium-Catalyzed Ethylene Copolymerization with Amino-Olefins: A Quantum Chemical Analysis. <i>ACS Catalysis</i> , 2019, 9, 8810-8818.	11.2	23
39	Cationic Pyridylamido Adsorbate on Brønsted Acidic Sulfated Zirconia: A Molecular Supported Organohafnium Catalyst for Olefin Homo- and Co-Polymerization. <i>ACS Catalysis</i> , 2018, 8, 4893-4901.	11.2	21
40	AIMD Evidence of Inner Sphere Adsorption of Glycine on a Stepped (101) Boehmite AlOOH Surface. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23418-23427.	3.1	20
41	Surface vs Homogeneous Organo-Hafnium Catalyst Ion-Pairing and Ligand Effects on Ethylene Homo- and Copolymerizations. <i>ACS Catalysis</i> , 2021, 11, 3239-3250.	11.2	20
42	Engineered Si(100) surfaces for the gas-phase anchoring of metal η^2 -diketonate complexes. <i>Inorganica Chimica Acta</i> , 2007, 360, 170-178.	2.4	19
43	Multistep Anchoring Route of Luminescent (5-Amino-1,10-phenanthroline)tris(dibenzoylmethane)europium(III) on Si(100). <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 4121-4129.	2.0	17
44	Single η^6 Face/Allyl η^3 cis η^1 Arene Hydrogenation by a Supported Single η^6 Site d ⁰ . <i>Organozirconium Catalyst</i> . <i>Angewandte Chemie</i> , 2016, 128, 5349-5353.	2.0	17
45	Direct Growth on Si(100) of Isolated Octahedral Mil-101(Fe) Crystals for the Separation of Aromatic Vapors. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28836-28845.	3.1	16
46	Effects of Different Self-Assembled Monolayers on Thin-Film Morphology: A Combined DFT/MD Simulation Protocol. <i>Langmuir</i> , 2015, 31, 10693-10701.	3.5	15
47	Significant Polar Comonomer Enchainment in Zirconium η^6 Catalyzed, Masking Reagent η^6 Free, Ethylene Copolymerizations. <i>Angewandte Chemie</i> , 2019, 131, 7104-7108.	2.0	15
48	Si(111) Surface Engineered with Ordered Nanostructures by an Atom Transfer Radical Polymerization. <i>Journal of Physical Chemistry C</i> , 2011, 115, 12293-12298.	3.1	14
49	Covalent Functionalization of Silicon Surfaces with a Cavitand-Modified Salen. <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 2124-2131.	2.0	14
50	One pot grafting of tetrairon(III) single molecule magnets on silicon. <i>Polyhedron</i> , 2009, 28, 1758-1763.	2.2	13
51	A comparative experimental and theoretical study of the mechanism of graphene oxide mild reduction by ascorbic acid and N-acetyl cysteine for biomedical applications. <i>Materials Advances</i> , 2020, 1, 2745-2754.	5.4	13
52	Long range order in Si(100) surfaces engineered with porphyrin nanostructures. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4979.	5.5	12
53	Diaminoethane adsorption and water substitution on hydrated TiO ₂ : a thermochemical study based on first-principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 10824.	2.8	12
54	Flexible Interfaces between Reduced Graphene Oxide and Indium Tin Oxide/Polyethylene Terephthalate for Advanced Optoelectronic Devices. <i>ACS Applied Nano Materials</i> , 2019, 2, 5963-5972.	5.0	12

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55	Effect of Electrolytic Medium on the Electrochemical Reduction of Graphene Oxide on Si(111) as Probed by XPS. <i>Nanomaterials</i> , 2022, 12, 43.	4.1	11
56	Self-Assembled Monolayers of Dipolar Nonlinear Optical Nickel(II) Molecules on the Si(100) Surface with Nanoscale Uniformity. <i>Langmuir</i> , 2006, 22, 7952-7955.	3.5	10
57	Fascinating Role of the Number of f Electrons in Dipolar and Octupolar Contributions to Quadratic Hyperpolarizability of Trinuclear Lanthanides-Biscopper Schiff Base Complexes. <i>Inorganic Chemistry</i> , 2013, 52, 7550-7556.	4.0	10
58	MOCVD of Sr-Containing Oxides: Transport Properties and Deposition Mechanisms of the Sr(tmhd) ₂ pmdda Precursor. <i>Chemical Vapor Deposition</i> , 2005, 11, 269-275.	1.3	9
59	Covalent poly(methyl methacrylate) nanostructures on functionalized Si(100) surfaces. <i>RSC Advances</i> , 2013, 3, 1137-1144.	3.6	9
60	A Neutrally Charged Trimethylmanganese(III) Complex: Synthesis, Characterization, and Disproportionation Chemistry. <i>Organometallics</i> , 2016, 35, 2683-2688.	2.3	8
61	Beyond the Active Site. Cp*ZrMe ₃ /Sulfated Alumina-Catalyzed Olefin Polymerization Tacticity via Catalyst-Surface Ion Pairing. <i>ChemCatChem</i> , 2021, 13, 2564-2569.	3.7	8
62	Cavitand-Decorated Silicon Columnar Nanostructures for the Surface Recognition of Volatile Nitroaromatic Compounds. <i>ACS Omega</i> , 2018, 3, 9172-9181.	3.5	7
63	Heterogeneous growth of continuous ZIF-8 films on low-temperature amorphous silicon. <i>Applied Surface Science</i> , 2019, 473, 182-189.	6.1	7
64	Insight into Group 4 Metallocenium-Mediated Olefin Polymerization Reaction Coordinates Using a Metadynamics Approach. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 3491-3497.	5.3	4
65	XPS, FTIR-ATR, and AFM Structural Study of Silicon-Grafted Triol Monolayers for Controlled Anchoring of Single Molecule Magnets. <i>Journal of Physical Chemistry C</i> , 2010, 114, 20696-20701.	3.1	2