

Leonardo Belpassi

List of Publications by Year in descending order

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120
papers

4,059
citations

101543

36
h-index

138484

58
g-index

127
all docs

127
docs citations

127
times ranked

3138
citing authors

#	ARTICLE	IF	CITATIONS
1	What Singles out Alumanyl Anions? A Comparative Computational Study of the Carbon Dioxide Insertion Reaction in Goldâ€“Alumanyl, â€“Gallyl, and â€“Indyl Complexes. <i>Inorganic Chemistry</i> , 2022, 61, 1704-1716.	4.0	11
2	Unraveling differences in alumanyl and carbene coordination chemistry: bonding in gold complexes and reactivity with carbon dioxide. <i>Chemical Science</i> , 2022, 13, 4623-4634.	7.4	8
3	An <i>ETS</i> â€“ <i>NOCV</i> â€“based computational strategies for the characterization of concerted transition states involving CO_2 . <i>Journal of Computational Chemistry</i> , 2022, 43, 717-727.	3.3	7
4	Donation and back-donation in cis- and trans- $[(\eta^5\text{-C}_5\text{H}_5)\text{Fe}(\eta^1\text{-CO})(\eta^1/4\text{-CO})]_2$ tautomers: Which relative is more generous? An <i>ETS</i> - <i>NOCV</i> bond analysis. <i>Inorganica Chimica Acta</i> , 2022, 536, 120897.	2.4	0
5	Gold-Alumanyl and Gold-Diarylboryl Complexes: Bonding and Reactivity with Carbon Dioxide. <i>Inorganic Chemistry</i> , 2022, 61, 7327-7337.	4.0	10
6	The mechanism of the gold(<i>i</i>)-catalyzed Meyerâ€“Schuster rearrangement of 1-phenyl-2-propyn-1-ol <i>via</i> 4-endo-dig cyclization. <i>Dalton Transactions</i> , 2021, 50, 5154-5160.	3.3	4
7	Monitoring of the Pre-Equilibrium Step in the Alkyne Hydration Reaction Catalyzed by Au(III) Complexes: A Computational Study Based on Experimental Evidences. <i>Molecules</i> , 2021, 26, 2445.	3.8	4
8	Tuning the Gold(I)â€“Carbon σ Bond in Goldâ€“Alkynyl Complexes through Structural Modifications of the NHC Ancillary Ligand: Effect on Spectroscopic Observables and Reactivity. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 2401-2416.	2.0	5
9	Halogen bond interaction: Role of hybridization and induction. <i>Chemical Physics Letters</i> , 2021, 771, 138522.	2.6	6
10	Efficient Computation of Geometries for Gold Complexes. <i>ChemPhysChem</i> , 2021, 22, 1262-1268.	2.1	4
11	Experimental and theoretical investigation of the cycloisomerization of N-propargylcarboxamide catalyzed by NHC-Au-X in green solvents. <i>Inorganica Chimica Acta</i> , 2021, 522, 120372.	2.4	4
12	Reactivity of a Gold-Alumanyl Complex with Carbon Dioxide: A Nucleophilic Gold?. <i>Journal of the American Chemical Society</i> , 2021, 143, 14433-14437.	13.7	26
13	Turn-off and -on fluorescence switching of a self-assembled sensor for mercury(II) induced by anionic micelles. <i>Dyes and Pigments</i> , 2020, 173, 107959.	3.7	4
14	Spinâ€“orbit coupling is the key to unraveling intriguing features of the halogen bond involving astatine. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 1897-1910.	2.8	13
15	Fluorescent signal transduction in a self-assembled Hg ²⁺ chemosensor tuned by various interactions in micellar aqueous environment. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 389, 112276.	3.9	4
16	Spinâ€“Forbidden Reactivity of Transition Metal Oxo Species: Exploring the Potential Energy Surfaces. <i>Chemistry - A European Journal</i> , 2020, 26, 3080-3089.	3.3	10
17	Environmental Effects with Frozen-Density Embedding in Real-Time Time-Dependent Density Functional Theory Using Localized Basis Functions. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 5695-5711.	5.3	12
18	Spin-resolved charge displacement analysis as an intuitive tool for the evaluation of cPCET and HAT scenarios. <i>Chemical Communications</i> , 2020, 56, 12146-12149.	4.1	6

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19	Hydration of alkynes catalyzed by [Au(X)(L)(ppy)]X in the green solvent $\hat{1}^3$ -valerolactone under acid-free conditions: the importance of the pre-equilibrium step. <i>Catalysis Science and Technology</i> , 2020, 10, 7757-7767.	4.1	10
20	Spectroscopic/Bond Property Relationship in Group 11 Dihydrides via Relativistic Four-Component Methods. <i>Journal of Physical Chemistry A</i> , 2020, 124, 10565-10579.	2.5	3
21	Ground and excited electronic states of AuH ₂ via <i>i</i> detachment energies on AuH ₂ ⁺ using state-of-the-art relativistic calculations. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26742-26752.	2.8	1
22	Orbital Decomposition of the Carbon Chemical Shielding Tensor in Gold(I) N-Heterocyclic Carbene Complexes. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 1177-1183.	2.0	4
23	PyBERTHART: A Relativistic Real-Time Four-Component TDDFT Implementation Using Prototyping Techniques Based on Python. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 2410-2429.	5.3	17
24	Charge Displacement Analysis: A Tool to Theoretically Characterize the Charge Transfer Contribution of Halogen Bonds. <i>Molecules</i> , 2020, 25, 300.	3.8	17
25	BERTHA: Implementation of a four-component Dirac-Kohn-Sham relativistic framework. <i>Journal of Chemical Physics</i> , 2020, 152, 164118.	3.0	24
26	Disentanglement of orthogonal hydrogen and halogen bonds via natural orbital for chemical valence: A charge displacement analysis. <i>Journal of Computational Chemistry</i> , 2020, 41, 1185-1193.	3.3	8
27	Leading Interaction Components in the Structure and Reactivity of Noble Gases Compounds. <i>Molecules</i> , 2020, 25, 2367.	3.8	17
28	BERTHA and PyBERTHA: State of the Art for Full Four-Component Dirac-Kohn-Sham Calculations. <i>Advances in Parallel Computing</i> , 2020, , .	0.3	2
29	The Chemical Bond and <i>d</i> Hybridization in Coinage Metal(I) Cyanides. <i>Inorganic Chemistry</i> , 2019, 58, 11716-11729.	4.0	17
30	Chemical Bond Mechanism for Helium Revealed by Electronic Excitation. <i>Journal of Physical Chemistry A</i> , 2019, 123, 6572-6577.	2.5	4
31	The nature of the lead-iodine bond in PbI ₂ : A case study for the modelling of lead halide perovskites. <i>Computational and Theoretical Chemistry</i> , 2019, 1164, 112558.	2.5	9
32	Selective Emergence of the Halogen Bond in Ground and Excited States of Noble Gas-Chlorine Systems. <i>Angewandte Chemie</i> , 2019, 131, 4239-4243.	2.0	4
33	Selective Emergence of the Halogen Bond in Ground and Excited States of Noble Gas-Chlorine Systems. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4195-4199.	13.8	33
34	Understanding the Reactivity of Mn-Oxo Porphyrins for Substrate Hydroxylation: Theoretical Predictions and Experimental Evidence Reconciled. <i>Inorganic Chemistry</i> , 2019, 58, 7345-7356.	4.0	12
35	Cationic Gold(I) Diaryllenyliene Complexes: Bonding Features and Ligand Effects. <i>ChemPhysChem</i> , 2019, 20, 1671-1679.	2.1	18
36	Insight into the halogen-bond nature of noble gas-chlorine systems by molecular beam scattering experiments, <i>ab initio</i> calculations and charge displacement analysis. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7330-7340.	2.8	24

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37	Alkyne Activation with Gold(III) Complexes: A Quantitative Assessment of the Ligand Effect by Charge-Displacement Analysis. <i>Inorganic Chemistry</i> , 2019, 58, 3115-3129.	4.0	18
38	CHAPTER 26. Role of Ion Pairing in the Mechanisms of Au(I)-catalysed Reactions: Theory and Experiment. <i>RSC Catalysis Series</i> , 2019, , 564-578.	0.1	2
39	Hydration and alkoxylation of alkynes catalyzed by NHC-AuOTf. <i>Green Chemistry</i> , 2018, 20, 2125-2134.	9.0	40
40	Modelling Charge Transfer in Weak Chemical Bonds: Insights from the Chemistry of Helium. <i>ChemPhysChem</i> , 2018, 19, 1476-1485.	2.1	10
41	Frontispiece: Spin-Forbidden Reactions: Adiabatic Transition States Using Spin-Orbit Coupled Density Functional Theory. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
42	Charge-Displacement Analysis via Natural Orbitals for Chemical Valence in the Four-Component Relativistic Framework. <i>Journal of Chemical Theory and Computation</i> , 2018, 14, 1286-1296.	5.3	22
43	Relativistic quantum chemistry involving heavy atoms. <i>Rendiconti Lincei</i> , 2018, 29, 209-217.	2.2	3
44	Cooperative role of halogen and hydrogen bonding in the stabilization of water adducts with apolar molecules. <i>New Journal of Chemistry</i> , 2018, 42, 10603-10614.	2.8	16
45	Spin-Forbidden Reactions: Adiabatic Transition States Using Spin-Orbit Coupled Density Functional Theory. <i>Chemistry - A European Journal</i> , 2018, 24, 5006-5015.	3.3	23
46	Ubiquity of <i>cis</i> -Halide π Isocyanide Direct Interligand Interaction in Organometallic Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 14554-14563.	4.0	6
47	Ligand Effect on Bonding in Gold(III) Carbonyl Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 6161-6175.	4.0	21
48	The gold(π)-CO bond: a missing piece in the gold carbonyl complex landscape. <i>Chemical Communications</i> , 2017, 53, 1603-1606.	4.1	16
49	Helium Accepts Back-Donation In Highly Polar Complexes: New Insights into the Weak Chemical Bond. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3334-3340.	4.6	24
50	Unraveling the Anion/Ligand Interplay in the Reaction Mechanism of Gold(I)-Catalyzed Alkoxylation of Alkynes. <i>Organometallics</i> , 2017, 36, 2364-2376.	2.3	45
51	Modulating the Bonding Properties of π -Heterocyclic Carbenes (NHCs): A Systematic Charge-Displacement Analysis. <i>Chemistry - A European Journal</i> , 2017, 23, 7558-7569.	3.3	45
52	¹³ C-NMR Spectroscopy of π -Heterocyclic Carbenes Can Selectively Probe π Donation in Gold(I) Complexes. <i>Chemistry - A European Journal</i> , 2017, 23, 2722-2728.	3.3	38
53	Back-Donation in High-Valent d ⁰ Metal Complexes: Does It Exist? The Case of NbV. <i>Inorganic Chemistry</i> , 2017, 56, 11266-11274.	4.0	24
54	The ligand effect on the oxidative addition of dioxygen to gold(π)-hydride complexes. <i>Dalton Transactions</i> , 2017, 46, 11679-11690.	3.3	19

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55	Extensive Experimental and Computational Study of Counterion Effect in the Reaction Mechanism of NHC-Gold(I)-Catalyzed Alkoxylation of Alkynes. <i>Organometallics</i> , 2016, 35, 641-654.	2.3	61
56	Charge Transfer in Beryllium Bonds and Cooperativity of Beryllium and Halogen Bonds. A New Perspective. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2016, , 461-489.	0.6	1
57	σ Activation of Alkynes in Homogeneous and Heterogeneous Gold Catalysis. <i>Journal of Physical Chemistry A</i> , 2016, 120, 5239-5247.	2.5	49
58	Solvent-, Silver-, and Acid-Free NHC-Au-X Catalyzed Hydration of Alkynes. The Pivotal Role of the Counterion. <i>ACS Catalysis</i> , 2016, 6, 7363-7376.	11.2	106
59	Dioxygen insertion into the gold(σ)–hydride bond: spin orbit coupling effects in the spotlight for oxidative addition. <i>Chemical Science</i> , 2016, 7, 7034-7039.	7.4	33
60	Strong Electron-Donating Ligands Accelerate the Protodeauration Step in Gold(I)-Catalyzed Reactions: A Quantitative Understanding of the Ligand Effect. <i>Organometallics</i> , 2016, 35, 2275-2285.	2.3	41
61	Advances in Charge Displacement Analysis. <i>Journal of Chemical Theory and Computation</i> , 2016, 12, 1236-1244.	5.3	27
62	How σ back-donation quantitatively controls the CO stretching response in classical and non-classical metal carbonyl complexes. <i>Chemical Science</i> , 2016, 7, 1174-1184.	7.4	158
63	Cyclization of 2-Alkynyldimethylaniline on Gold(I) Cationic and Neutral Complexes. <i>Organometallics</i> , 2016, 35, 595-604.	2.3	18
64	Interaction of O ₂ with CH ₄ , CF ₄ , and CCl ₄ by Molecular Beam Scattering Experiments and Theoretical Calculations. <i>Journal of Physical Chemistry A</i> , 2016, 120, 5197-5207.	2.5	20
65	Selectively Measuring σ...Back Donation in Gold(I) Complexes by NMR Spectroscopy. <i>Chemistry - A European Journal</i> , 2015, 21, 2467-2473.	3.3	53
66	Catching the role of anisotropic electronic distribution and charge transfer in halogen bonded complexes of noble gases. <i>Journal of Chemical Physics</i> , 2015, 142, 184304.	3.0	39
67	Counterion Effect in the Reaction Mechanism of NHC Gold(I)-Catalyzed Alkoxylation of Alkynes: Computational Insight into Experiment. <i>ACS Catalysis</i> , 2015, 5, 803-814.	11.2	98
68	Anomalous ligand effect in gold(i)-catalyzed intramolecular hydroamination of alkynes. <i>Chemical Communications</i> , 2015, 51, 5990-5993.	4.1	24
69	Experimental Evidence of Chemical Components in the Bonding of Helium and Neon with Neutral Molecules. <i>Chemistry - A European Journal</i> , 2015, 21, 6234-6240.	3.3	53
70	Quantitative assessment of the carbocation/carbene character of the gold–carbene bond. <i>Dalton Transactions</i> , 2015, 44, 13999-14007.	3.3	29
71	Diffusion NMR measurements on cationic linear gold(I) complexes. <i>Polyhedron</i> , 2015, 92, 52-59.	2.2	17
72	Charge-displacement analysis via natural orbitals for chemical valence: Charge transfer effects in coordination chemistry. <i>Journal of Chemical Physics</i> , 2015, 142, 084112.	3.0	69

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73	H ₂ Oâ€“CH ₄ and H ₂ Sâ€“CH ₄ complexes: a direct comparison through molecular beam experiments and ab initio calculations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30613-30623.	2.8	22
74	Goldâ€“superheavy-element interaction in diatomics and cluster adducts: A combined four-component Dirac-Kohn-Sham/charge-displacement study. <i>Journal of Chemical Physics</i> , 2015, 143, 024307.	3.0	17
75	An <i>ab initio</i> electronic density study of the CH ₄ â€“Ar, CH ₄ â€“Xe, CH ₄ â€“H ₂ O and CH ₄ â€“H ₂ S complexes: insights into the nature of the intermolecular interaction. <i>Molecular Physics</i> , 2015, 113, 3992-3999.	1.7	9
76	Relationship between the anion/cation relative orientation and the catalytic activity of nitrogen acyclic carbeneâ€“gold catalysts. <i>Catalysis Science and Technology</i> , 2015, 5, 1558-1567.	4.1	28
77	Charge-displacement analysis for excited states. <i>Journal of Chemical Physics</i> , 2014, 140, 054110.	3.0	26
78	When the Tolman Electronic Parameter Fails: A Comparative DFT and Charge Displacement Study of [(L)Ni(CO) ₃] ^{0/+} and [(L)Au(CO)] ^{0/+} . <i>Inorganic Chemistry</i> , 2014, 53, 9907-9916.	4.0	67
79	The Chemical Bond in Gold(I) Complexes with N-Heterocyclic Carbenes. <i>Organometallics</i> , 2014, 33, 4200-4208.	2.3	73
80	Unexpected Anion Effect in the Alkoxylation of Alkynes Catalyzed by Nâ€“Heterocyclic Carbene (NHC) Cationic Gold Complexes. <i>Chemistry - A European Journal</i> , 2014, 20, 14594-14598.	3.3	63
81	An <i>ab Initio</i> Benchmark and DFT Validation Study on Gold(I)-Catalyzed Hydroamination of Alkynes. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 1021-1034.	5.3	57
82	Full Parallel Implementation of an All-Electron Four-Component Diracâ€“Kohnâ€“Sham Program. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 3766-3776.	5.3	21
83	A Quantitative View of Charge Transfer in the Hydrogen Bond: The Water Dimer Case. <i>ChemPhysChem</i> , 2014, 15, 2682-2687.	2.1	55
84	Intermolecular Interaction in the H ₂ Sâ€“H ₂ Complex: Molecular Beam Scattering Experiments and Ab-Initio Calculations. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6440-6450.	2.5	15
85	Density Relaxation in Time-Dependent Density Functional Theory: Combining Relaxed Density Natural Orbitals and Multireference Perturbation Theories for an Improved Description of Excited States. <i>Journal of Chemical Theory and Computation</i> , 2014, 10, 4014-4024.	5.3	41
86	NHC-Gold-Alkyne Complexes: Influence of the Carbene Backbone on the Ion Pair Structure. <i>Organometallics</i> , 2013, 32, 4444-4447.	2.3	56
87	Disentanglement of Donation and Backâ€“Donation Effects on Experimental Observables: A Case Study of Goldâ€“Ethyne Complexes. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 11599-11602.	13.8	61
88	A combined NMR/DFT study on the ion pair structure of [(PR) ₁] ₂ R ₂)Au(I ₂ -3-hexyne)]BF ₄ complexes. <i>Dalton Transactions</i> , 2013, 42, 4122-4131.	3.3	40
89	Influence of the dye molecular structure on the TiO ₂ conduction band in dye-sensitized solar cells: disentangling charge transfer and electrostatic effects. <i>Energy and Environmental Science</i> , 2013, 6, 183-193.	30.8	247
90	Ligand Effects on Bonding and Ion Pairing in Cationic Gold(I) Catalysts Bearing Unsaturated Hydrocarbons. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 4121-4135.	2.0	73

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91	Intermolecular Interaction in the $\text{NH}_3 \cdots \text{H}_2$ and $\text{H}_2 \cdots \text{O} \cdots \text{H}_2$ Complexes by Molecular Beam Scattering Experiments: The Role of Charge Transfer. <i>Journal of Physical Chemistry A</i> , 2013, 117, 12601-12607.	2.5	15
92	Efficient Parallel All-Electron Four-Component Dirac-Kohn-Sham Program Using a Distributed Matrix Approach II. <i>Journal of Chemical Theory and Computation</i> , 2013, 9, 5356-5364.	5.3	21
93	Revealing Charge-Transfer Effects in Gas-Phase Water Chemistry. <i>Accounts of Chemical Research</i> , 2012, 45, 1571-1580.	15.6	107
94	On the role of charge transfer in the stabilization of weakly bound complexes involving water and hydrogen sulphide molecules. <i>Chemical Physics</i> , 2012, 398, 176-185.	1.9	12
95	Recent advances and perspectives in four-component Dirac-Kohn-Sham calculations. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 12368.	2.8	59
96	Charge-Displacement Analysis of the Interaction in the Ammonia-Noble Gas Complexes. <i>Journal of Physical Chemistry A</i> , 2011, 115, 14657-14666.	2.5	23
97	Nature and Stability of Weak Halogen Bonds in the Gas Phase: Molecular Beam Scattering Experiments and Ab Initio Charge Displacement Calculations. <i>Crystal Growth and Design</i> , 2011, 11, 4279-4283.	3.0	30
98	Molecular-beam study of the ammonia-noble gas systems: Characterization of the isotropic interaction and insights into the nature of the intermolecular potential. <i>Journal of Chemical Physics</i> , 2011, 135, 194301.	3.0	21
99	On the Dewar-Chatt-Duncanson Model for Catalytic Gold(I) Complexes. <i>Chemistry - A European Journal</i> , 2010, 16, 7231-7240.	3.3	91
100	Ion pairing in NHC gold(I) olefin complexes: A combined experimental/theoretical study. <i>Journal of Organometallic Chemistry</i> , 2010, 695, 2679-2686.	1.8	42
101	DFT studies of β -elimination reactions in water solution with different bases: Theory vs experiment. <i>Computational and Theoretical Chemistry</i> , 2010, 940, 103-114.	1.5	4
102	Fluorinated β -Diketonate Diglyme Lanthanide Complexes as New Second-Order Nonlinear Optical Chromophores: The Role of f Electrons in the Dipolar and Octupolar Contribution to Quadratic Hyperpolarizability. <i>Journal of the American Chemical Society</i> , 2010, 132, 4966-4970.	13.7	55
103	A Phosphine Gold(I) π -Alkyne Complex: Tuning the Metal-Alkyne Bond Character and Counterion Position by the Choice of the Ancillary Ligand. <i>Inorganic Chemistry</i> , 2010, 49, 3080-3082.	4.0	92
104	An Efficient Parallel All-Electron Four-Component Dirac-Kohn-Sham Program Using a Distributed Matrix Approach. <i>Journal of Chemical Theory and Computation</i> , 2010, 6, 384-394.	5.3	27
105	Charge-Transfer Energy in the Water-Hydrogen Molecular Aggregate Revealed by Molecular-Beam Scattering Experiments, Charge Displacement Analysis, and ab Initio Calculations. <i>Journal of the American Chemical Society</i> , 2010, 132, 13046-13058.	13.7	80
106	Molecular-Beam Scattering Experiments and Theoretical Calculations Probing Charge Transfer in Weakly Bound Complexes of Water. <i>Journal of Physical Chemistry A</i> , 2009, 113, 15223-15232.	2.5	53
107	Oligothiophenes Nano-organized on a Cyclotetrasiloxane Scaffold as a Model of a Silica-Bound Monolayer: Evidence for Intramolecular Excimer Formation. <i>Chemistry - A European Journal</i> , 2009, 15, 12791-12798.	3.3	20
108	Merging of E2 and E1cb Reaction Mechanisms: A Combined Theoretical and Experimental Study. <i>European Journal of Organic Chemistry</i> , 2009, 2009, 5501-5504.	2.4	13

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109	Spectroscopic properties of cyclometallated iridium complexes by TDDFT. Computational and Theoretical Chemistry, 2009, 914, 74-86.	1.5	31
110	Ion Pairing in Cationic Olefin ^π Gold(I) Complexes. Journal of the American Chemical Society, 2009, 131, 3170-3171.	13.7	134
111	Experimental and theoretical evidence of charge transfer in weakly bound complexes of water. Physical Chemistry Chemical Physics, 2009, 11, 9970.	2.8	52
112	The Chemical Bond between Au(I) and the Noble Gases. Comparative Study of NgAuF and NgAu ⁺ (Ng = Ar, Kr, Xe) by Density Functional and Coupled Cluster Methods. Journal of the American Chemical Society, 2008, 130, 1048-1060.	13.7	260
113	Poisson-transformed density fitting in relativistic four-component Dirac-Kohn-Sham theory. Journal of Chemical Physics, 2008, 128, 124108.	3.0	19
114	All-electron four-component Dirac-Kohn-Sham procedure for large molecules and clusters containing heavy elements. Physical Review B, 2008, 77, .	3.2	21
115	Nuclear electric quadrupole moment of gold. Journal of Chemical Physics, 2007, 126, 064314.	3.0	46
116	An indirect approach to the determination of the nuclear quadrupole moment by four-component relativistic DFT in molecular calculations. Chemical Physics Letters, 2007, 442, 233-237.	2.6	14
117	The Electronic Structure of Alkali Aurides. A Four-Component Dirac-Kohn-Sham Study. Journal of Physical Chemistry A, 2006, 110, 4543-4554.	2.5	33
118	Electron density fitting for the Coulomb problem in relativistic density-functional theory. Journal of Chemical Physics, 2006, 124, 124104.	3.0	36
119	Computational strategies for a four-component Dirac-Kohn-Sham program: Implementation and first applications. Journal of Chemical Physics, 2005, 122, 184109.	3.0	19
120	Parallelization of a relativistic DFT code. Future Generation Computer Systems, 2004, 20, 739-747.	7.5	14