

Jochen Autschbach

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

376
papers

16,871
citations

69
h-index

108
g-index

422
ext. papers

19,071
ext. citations

6.4
avg, IF

7.21
L-index

#	Paper	IF	Citations
376	Covalency in actinide(IV) hexachlorides in relation to the chlorine K-edge X-ray absorption structure.. <i>Chemical Science</i> , 2022 , 13, 3194-3207	9.4	3
375	Comparative Study of Vibrational Raman Optical Activity with Different Time-Dependent Density Functional Approximations: The VROA36 Database.. <i>Journal of Physical Chemistry A</i> , 2022 , 126, 2909-2927	2.8	1
374	Optical Activity of Spin-Forbidden Electronic Transitions in Metal Complexes from Time-Dependent Density Functional Theory with Spin-Orbit Coupling.. <i>ChemistryOpen</i> , 2022 , 11, e202200020	2.3	1
373	Covalency of Trivalent Actinide Ions with Different Donor Ligands: Do Density Functional and Multiconfigurational Wavefunction Calculations Corroborate the Observed "Breaks"?. <i>Inorganic Chemistry</i> , 2021 , 60, 17744-17757	5.1	3
372	Spin-Orbit Natural Transition Orbitals and Spin-Forbidden Transitions. <i>Journal of Chemical Theory and Computation</i> , 2021 ,	6.4	2
371	Synthesis and electronic structure analysis of the actinide allenylidenes, [((NR))An(CCCPh)] (An = U, Th; R = SiMe). <i>Chemical Science</i> , 2021 , 12, 14383-14388	9.4	1
370	Luminescent Chiral Exciplexes with Sky-Blue and Green Circularly Polarized-Thermally Activated Delayed Fluorescence. <i>Chemistry - A European Journal</i> , 2021 , 27, 16505-16511	4.8	2
369	Isolation and characterization of a covalent Ce-Aryl complex with an anomalous C chemical shift. <i>Nature Communications</i> , 2021 , 12, 1713	17.4	7
368	Probing Multiconfigurational States by Spectroscopy: The Cerium XAS L -edge Puzzle. <i>Chemistry - A European Journal</i> , 2021 , 27, 7239-7251	4.8	7
367	Probing Multiconfigurational States by Spectroscopy: The Cerium XAS L -edge Puzzle. <i>Chemistry - A European Journal</i> , 2021 , 27, 7188	4.8	1
366	Synthesis and Properties of Partially Saturated Fluorenyl-Derived [n]Helicenes Featuring an Overcrowded Alkene. <i>Chemistry - A European Journal</i> , 2021 , 27, 7722-7730	4.8	1
365	Validation of microscopic magnetochiral dichroism theory. <i>Science Advances</i> , 2021 , 7,	14.3	4
364	Why is the Energy of the Singly Occupied Orbital in Some Radicals below the Highest Occupied Orbital Energy?. <i>Chemistry of Materials</i> , 2021 , 33, 3678-3691	9.6	7
363	Unveiling the catalytic effects of Brønsted acidic ionic liquid on quantitative D-glucose conversion to 5-HMF: Experimental and computational studies. <i>Renewable Energy</i> , 2021 , 171, 383-390	8.1	5
362	Synthesis and Characterization of Two Uranyl-Aryl "Ate" Complexes. <i>Chemistry - A European Journal</i> , 2021 , 27, 5885-5889	4.8	8
361	Axial and helical thermally activated delayed fluorescence bicarbazole emitters: opposite modulation of circularly polarized luminescence through intramolecular charge-transfer dynamics. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 11905-11914	7.1	3
360	Valence-shell photoelectron circular dichroism of ruthenium(III)-tris-(acetylacetonato) gas-phase enantiomers. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 24140-24153	3.6	3

359	molecular dynamics study of sodium NMR chemical shifts in the methylamine solution of [Na [2.2.2]cryptand Na]. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 339-346	3.6	3
358	Exciton coupling chirality in helicene-porphyrin conjugates. <i>Chemical Communications</i> , 2021 , 57, 10743-10746	19.846	3
357	Solvent effect on the Pt NMR properties in pyridonate-bridged Pt dinuclear complex derivatives investigated by ab initio molecular dynamics and localized orbital analysis. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 12864-12880	3.6	1
356	Computational mechanistic studies of the carbon-carbon double bond difunctionalization via epoxidation and subsequent aminolysis in vegetable oils. <i>International Journal of Quantum Chemistry</i> , 2021 , 121, e26609	2.1	
355	Homoleptic Perchlorophenyl "Ate" Complexes of Thorium(IV) and Uranium(IV). <i>Inorganic Chemistry</i> , 2021 , 60, 12436-12444	5.1	3
354	UCN@ (6) -C: An Encapsulated Triangular UCN Cluster with Ambiguous U Oxidation State [U(III) versus U(I)]. <i>Journal of the American Chemical Society</i> , 2021 , 143, 16226-16234	16.4	4
353	Backbonding in Thorium(IV) and Uranium(IV) Diarsenido Complexes with tBuNC and CO. <i>Chemistry - A European Journal</i> , 2021 , 27, 14396-14400	4.8	2
352	Synthesis of Parent Acetylide and Dicarbide Complexes of Thorium and Uranium and an Examination of Their Electronic Structures. <i>Inorganic Chemistry</i> , 2021 , 60, 15413-15420	5.1	4
351	Theoretical Prediction and Interpretation of Np Mössbauer Isomer Shifts. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 6166-6179	6.4	1
350	Electron-Nucleus Hyperfine Coupling Calculated from Restricted Active Space Wavefunctions and an Exact Two-Component Hamiltonian. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 255-268	6.4	6
349	Spectroscopic characterization of neptunium(VI), plutonium(VI), americium(VI) and neptunium(V) encapsulated in uranyl nitrate hexahydrate. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 13228-13241	3.6	2
348	Enhanced 5f-bonding in [U(CH)] $_3$: C K-edge XAS, magnetism, and calculations. <i>Chemical Communications</i> , 2021 , 57, 9562-9565	5.8	1
347	Near-infrared -term MCD spectroscopy of octahedral uranium(V) complexes. <i>Dalton Transactions</i> , 2021 , 50, 5483-5492	4.3	1
346	Achieving high circularly polarized luminescence with push-pull helicenic systems: from rationalized design to top-emission CP-OLED applications. <i>Chemical Science</i> , 2021 , 12, 5522-5533	9.4	24
345	The Exceptional Diversity of Homoleptic Uranium-Methyl Complexes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13586-13590	16.4	5
344	Construction of New Azo-group Containing Polycyclic Imidazole Derivatives: Computational Mechanistic, Structural, and Fluorescence Studies. <i>ChemistrySelect</i> , 2020 , 5, 6224-6229	1.8	3
343	NWChem: Past, present, and future. <i>Journal of Chemical Physics</i> , 2020 , 152, 184102	3.9	187
342	Ab Initio Study of Vibronic and Magnetic 5f-to-5f and Dipole-Allowed 5f-to-6d and Charge-Transfer Transitions in [UX] (X = Cl, Br; = 1, 2). <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 5189-5202	6.4	4

341	Modern quantum chemistry with [Open]Molcas. <i>Journal of Chemical Physics</i> , 2020 , 152, 214117	3.9	106
340	New class of cocogem surfactants based on hexamethylenediamine, propylene oxide, and long chain carboxylic acids: Theory and application. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 86, 123-135	6.3	7
339	Gas-Phase Complexes of Americium and Lanthanides with a Bis-triazinyl Pyridine: Reactivity and Bonding of Archetypes for F-Element Separations. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 2982-2990	2.8	3
338	Long-Lived Circularly Polarized Phosphorescence in Helicene-NHC Rhenium(I) Complexes: The Influence of Helicene, Halogen, and Stereochemistry on Emission Properties. <i>Angewandte Chemie</i> , 2020 , 132, 8472-8478	3.6	10
337	Long-Lived Circularly Polarized Phosphorescence in Helicene-NHC Rhenium(I) Complexes: The Influence of Helicene, Halogen, and Stereochemistry on Emission Properties. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8394-8400	16.4	28
336	Theoretical study of the Raman optical activity spectra of with $M\equiv[Co, Rh]$. <i>Chirality</i> , 2020 , 32, 741-752	2.1	3
335	Probing the Electronic Structure of a Thorium Nitride Complex by Solid-State N NMR Spectroscopy. <i>Inorganic Chemistry</i> , 2020 , 59, 10138-10145	5.1	12
334	Assessment of the Performance of Optimally Tuned Range-Separated Hybrid Functionals for Nuclear Magnetic Shielding Calculations. <i>Advanced Theory and Simulations</i> , 2020 , 3, 2000083	3.5	2
333	The Sodium Anion Is Strongly Perturbed in the Condensed Phase Even Though It Appears Like a Free Ion in Nuclear Magnetic Resonance Experiments. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 843-850	6.4	4
332	Aggregation and antimicrobial properties of gemini surfactants with mono- and di-(2-hydroxypropyl)ammonium head-groups: Effect of the spacer length and computational studies. <i>Journal of Molecular Liquids</i> , 2020 , 302, 112579	6	6
331	Ab Initio Analysis of Metal-Ligand Bonding in An(COT) with An=Th, U in Their Ground- and Core-Excited States. <i>Chemistry - A European Journal</i> , 2020 , 26, 1776-1788	4.8	14
330	Modulation of circularly polarized luminescence through excited-state symmetry breaking and interbranched exciton coupling in helical push-pull organic systems. <i>Chemical Science</i> , 2020 , 11, 567-576	9.4	40
329	Ligand effects on electronic structure and bonding in U(III) coordination complexes: a combined MCD, EPR and computational study. <i>Dalton Transactions</i> , 2020 , 49, 14401-14410	4.3	7
328	Compression of curium pyrrolidine-dithiocarbamate enhances covalency. <i>Nature</i> , 2020 , 583, 396-399	50.4	13
327	The Exceptional Diversity of Homoleptic Uranium Methyl Complexes. <i>Angewandte Chemie</i> , 2020 , 132, 13688-13692	3.6	1
326	Axially and Helically Chiral Cationic Radical Bicarbazoles: SOMO-HOMO Level Inversion and Chirality Impact on the Stability of Mono- and Diradical Cations. <i>Journal of the American Chemical Society</i> , 2020 ,	16.4	20
325	Quadrupolar NMR Relaxation of Aqueous I, Xe, and Cs: A First-Principles Approach from Dynamics to Properties. <i>Journal of Chemical Theory and Computation</i> , 2020 , 16, 5835-5844	6.4	4
324	Counterion-coupled gemini surfactants based on propoxylated hexamethylenediamine and fatty acids: Theory and application. <i>Journal of Molecular Liquids</i> , 2020 , 318, 114050	6	3

323	Dinuclear Rhenium Complexes with a Bridging Helicene-bis-bipyridine Ligand: Synthesis, Structure, and Photophysical and Chiroptical Properties. <i>ChemPlusChem</i> , 2020 , 85, 2446-2454	2.8	4
322	Cerium(IV) complexes with guanidinate ligands: intense colors and anomalous electronic structures. <i>Chemical Science</i> , 2020 , 12, 3558-3567	9.4	2
321	OpenMolcas: From Source Code to Insight. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 5925-5964	3.0	310
320	Synthesis, Characterization, and Electrochemistry of the Homoleptic f Element Ketimide Complexes [Li][M(N ⁺ CBuPh)] (M = Ce, Th). <i>Inorganic Chemistry</i> , 2019 , 58, 12654-12661	5.1	14
319	Computational investigation of catalytic effects of CXCOOH (X = F, Cl, H) on the three-component cyclocondensation reaction. <i>Journal of Molecular Modeling</i> , 2019 , 25, 173	2	5
318	Ab Initio Study of Circular Dichroism and Circularly Polarized Luminescence of Spin-Allowed and Spin-Forbidden Transitions: From Organic Ketones to Lanthanide Complexes. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 4140-4155	6.4	14
317	Use of NMR spectroscopy to probe covalency in a thorium nitride. <i>Chemical Science</i> , 2019 , 10, 6431-6436	3.6	28
316	Homoleptic Aryl Complexes of Uranium (IV). <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10266-10270	18	
315	Experimental and computational study of metal-free Brønsted acidic ionic liquid catalyzed benzylic C(sp ³) H bond activation and C-N, C-C cross couplings. <i>Journal of Molecular Liquids</i> , 2019 , 280, 410-419	6	10
314	The Computational Design of Two-Dimensional Materials. <i>Journal of Chemical Education</i> , 2019 , 96, 2308-2314	6	
313	Insight into the Electronic Structure of Formal Lanthanide(II) Complexes using Magnetic Circular Dichroism Spectroscopy. <i>Organometallics</i> , 2019 , 38, 3124-3131	3.8	9
312	Homoleptic Aryl Complexes of Uranium (IV). <i>Angewandte Chemie</i> , 2019 , 131, 10372-10376	3.6	4
311	Size evolution study on the electronic and optical properties of gold-cluster complexes Au ₄ -S-C _n H _{2n} -S ⁻ -Au ₄ ? (n = 2B). <i>Chemical Physics Letters</i> , 2019 , 732, 136625	2.5	2
310	Phosphahelicenes with (Thio)Phosphinic Acid and Ester Functions by the Oxidative Photocyclisation Approach. <i>Chemistry - A European Journal</i> , 2019 , 25, 15609-15614	4.8	0
309	Magnetic circular dichroism spectra of transition metal complexes calculated from restricted active space wavefunctions. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5586-5597	3.6	14
308	Proton NMR relaxation from molecular dynamics: intramolecular and intermolecular contributions in water and acetonitrile. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 26621-26629	3.6	3
307	Diuranium(IV) Carbide Cluster UC Stabilized Inside Fullerene Cages. <i>Journal of the American Chemical Society</i> , 2019 , 141, 20249-20260	16.4	27
306	Magnetic Coupling in the Ce(III) Dimer Ce(COT). <i>Inorganic Chemistry</i> , 2019 , 58, 581-593	5.1	7

305	Molecular QAIM Topology Is Sensitive to Relativistic Corrections. <i>Chemistry - A European Journal</i> , 2019 , 25, 2538-2544	4.8	9
304	Quadrupolar N NMR Relaxation from Force-Field and Ab Initio Molecular Dynamics in Different Solvents. <i>Journal of Chemical Theory and Computation</i> , 2019 , 15, 509-519	6.4	11
303	Thermochromic Uranyl Isothiocyanates: Influencing Charge Transfer Bands with Supramolecular Structure. <i>Inorganic Chemistry</i> , 2018 , 57, 2455-2471	5.1	16
302	Calculation of Dipole-Forbidden 5f Absorption Spectra of Uranium(V) Hexa-Halide Complexes. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 887-894	6.4	10
301	Calculation of linear and nonlinear optical properties of azobenzene derivatives with Kohn-Sham and coupled-cluster methods. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 7303-7316	3.6	16
300	Crystal Field in Rare-Earth Complexes: From Electrostatics to Bonding. <i>Chemistry - A European Journal</i> , 2018 , 24, 5538-5550	4.8	13
299	Understanding and Controlling the Emission Brightness and Color of Molecular Cerium Luminophores. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4588-4595	16.4	44
298	The halogen effect on the C NMR chemical shift in substituted benzenes. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 11247-11259	3.6	22
297	A diuranium carbide cluster stabilized inside a C fullerene cage. <i>Nature Communications</i> , 2018 , 9, 2753	17.4	47
296	Redox-Active Chiroptical Switching in Mono- and Bis-Iron Ethynylcarbo[6]helicenes Studied by Electronic and Vibrational Circular Dichroism and Resonance Raman Optical Activity. <i>Chemistry - A European Journal</i> , 2018 , 24, 15067-15079	4.8	19
295	Helicenes Grafted with 1,1,4,4-Tetracyanobutadiene Moieties: Helical Push-Pull Systems with Strong Electronic Circular Dichroism and Two-Photon Absorption. <i>Chemistry - A European Journal</i> , 2018 , 24, 14484-14494	4.8	19
294	Similar ligand-metal bonding for transition metals and actinides? 5f U(CH) 3d metallocenes. <i>Chemical Science</i> , 2018 , 9, 6292-6306	9.4	12
293	Extended Hückel Calculations on Solids Using the Avogadro Molecular Editor and Visualizer. <i>Journal of Chemical Education</i> , 2018 , 95, 331-337	2.4	11
292	Exciton coupling in diketopyrrolopyrrole-helicene derivatives leads to red and near-infrared circularly polarized luminescence. <i>Chemical Science</i> , 2018 , 9, 735-742	9.4	82
291	Electronic Structure of the Actinide Elements 2018 , 1-16		
290	Plutonium chlorido nitrate complexes: ligand competition and computational metrics for assembly and bonding. <i>Chemical Communications</i> , 2018 , 54, 12014-12017	5.8	3
289	Ab Initio Study of Covalency in the Ground versus Core-Excited States and X-ray Absorption Spectra of Actinide Complexes. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5583-5591	6.4	27
288	Complete Active Space Wavefunction-Based Analysis of Magnetization and Electronic Structure. <i>Topics in Organometallic Chemistry</i> , 2018 , 355-390	0.6	6

287	Redox-triggered chiroptical switching activity of ruthenium(III)-bis-(Ediketonato) complexes bearing a bipyridine-helicene ligand. <i>Chirality</i> , 2018 , 30, 592-601	2.1	10
286	Influence of Substituents on the Electronic Structure of Mono- and Bis(phosphido) Thorium(IV) Complexes. <i>Inorganic Chemistry</i> , 2018 , 57, 7270-7278	5.1	10
285	A Pseudotetrahedral Uranium(V) Complex. <i>Inorganic Chemistry</i> , 2018 , 57, 8106-8115	5.1	9
284	Palladium Acetate Revisited: Unusual Ring-Current Effects, One-Electron Reduction, and Metal-Metal Bonding. <i>Inorganic Chemistry</i> , 2018 , 57, 8046-8049	5.1	13
283	Low-Spin Fe(III) Macrocyclic Complexes of Imidazole-Appended 1,4,7-Triazacyclononane as Paramagnetic Probes. <i>Inorganic Chemistry</i> , 2018 , 57, 8364-8374	5.1	20
282	Puzzling Lack of Temperature Dependence of the PuO Magnetic Susceptibility Explained According to Ab Initio Wave Function Calculations. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 673-678	6.4	18
281	Calculating Natural Optical Activity of Molecules from First Principles. <i>Annual Review of Physical Chemistry</i> , 2017 , 68, 399-420	15.7	88
280	Uranyl Carbonate Complexes in Aqueous Solution and Their Ligand NMR Chemical Shifts and O Quadrupolar Relaxation Studied by ab Initio Molecular Dynamics. <i>Inorganic Chemistry</i> , 2017 , 56, 7384-7396	5.1	11
279	Enantiopure Cycloiridiated Complexes Bearing a Pentahelicenic N-Heterocyclic Carbene and Displaying Long-Lived Circularly Polarized Phosphorescence. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8236-8239	16.4	110
278	Enantiopure Cycloiridiated Complexes Bearing a Pentahelicenic N-Heterocyclic Carbene and Displaying Long-Lived Circularly Polarized Phosphorescence. <i>Angewandte Chemie</i> , 2017 , 129, 8348-8351	3.6	35
277	Synthesis, Spectroelectrochemical Behavior, and Chiroptical Switching of Tris(Ediketonato) Complexes of Ruthenium(III), Chromium(III), and Cobalt(III). <i>Inorganic Chemistry</i> , 2017 , 56, 4556-4568	5.1	18
276	Structure and Bonding Investigation of Plutonium Peroxocarbonate Complexes Using Cerium Surrogates and Electronic Structure Modeling. <i>Inorganic Chemistry</i> , 2017 , 56, 791-801	5.1	13
275	Relativistic Effects on Electron-Nucleus Hyperfine Coupling Studied with an Exact 2-Component (X2C) Hamiltonian. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 710-718	6.4	12
274	Enantioselective Recognition of Ammonium Carbamates in a Chiral Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16000-16012	16.4	61
273	A new Pu(III) coordination geometry in (CHNBr)[PuCl(HO)] ₂ Cl ₂ HO as obtained via supramolecular assembly in aqueous, high chloride media. <i>Chemical Communications</i> , 2017 , 53, 10816-10819	5.8	6
272	Engaging the Terminal: Promoting Halogen Bonding Interactions with Uranyl Oxo Atoms. <i>Chemistry - A European Journal</i> , 2017 , 23, 15355-15369	4.8	32
271	Quadrupolar NMR Relaxation from ab Initio Molecular Dynamics: Improved Sampling and Cluster Models versus Periodic Calculations. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 4397-4409	6.4	10
270	The unexpected roles of π and σ orbitals in electron donor and acceptor group effects on the C NMR chemical shifts in substituted benzenes. <i>Chemical Science</i> , 2017 , 8, 6570-6576	9.4	29

269	Assessment of Tuned Range Separated Exchange Functionals for Spectroscopies and Properties of Uranium Complexes. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 3614-3625	6.4	13
268	Electronic π - π^* Excitations of Rhodamine Dyes Exhibit a Time-Dependent Kohn-Sham Theory "Cyanine Problem". <i>ChemistryOpen</i> , 2017 , 6, 385-392	2.3	18
267	Electronic Structure and Properties of Berkelium Iodates. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13361-13375	16.4	18
266	Magnetic circular dichroism of UCl in the ligand-to-metal charge-transfer spectral region. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 17300-17313	3.6	19
265	X-ray circular dichroism signals: a unique probe of local molecular chirality. <i>Chemical Science</i> , 2017 , 8, 5969-5978	9.4	15
264	Transuranic Hybrid Materials: Crystallographic and Computational Metrics of Supramolecular Assembly. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10843-10855	16.4	39
263	Synthesis and Chiroptical Properties of Hexa-, Octa-, and Deca-azaborahelicenes: Influence of Helicene Size and of the Number of Boron Atoms. <i>Chemistry - A European Journal</i> , 2017 , 23, 407-418	4.8	68
262	Relativistic Methods for Calculating Electron Paramagnetic Resonance (EPR) Parameters 2017 , 725-763		8
261	Relativistic Theories of NMR Shielding 2017 , 657-692		9
260	Size evolution relativistic DFT-QTAIM study on the gold cluster complexes $Au_4-S-C_nH_{2n}-S^?-Au_4?$ ($n = 2B$). <i>Chemical Physics Letters</i> , 2016 , 660, 287-294	2.5	8
259	Characterization of berkelium(III) dipicolinate and borate compounds in solution and the solid state. <i>Science</i> , 2016 , 353,	33.3	73
258	Ionic Liquid Solvation versus Catalysis: Computational Insight from a Multisubstituted Imidazole Synthesis in $[EtNH][HSO]$. <i>ChemistryOpen</i> , 2016 , 5, 460-469	2.3	17
257	Computational prediction and analysis of the $(27)Al$ solid-state NMR spectrum of methylaluminumoxane (MAO) at variable temperatures and field strengths. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 24106-18	3.6	15
256	Giant spin-orbit effects on H and C NMR shifts for uranium(vi) complexes revisited: role of the exchange-correlation response kernel, bonding analyses, and new predictions. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 30462-30474	3.6	33
255	A Nonorthogonal State-Interaction Approach for Matrix Product State Wave Functions. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 5881-5894	6.4	26
254	NMR J-Coupling Constants of Tl-Pt Bonded Metal Complexes in Aqueous Solution: Ab Initio Molecular Dynamics and Localized Orbital Analysis. <i>Inorganic Chemistry</i> , 2016 , 55, 12011-12023	5.1	9
253	Iron Alkynyl Helicenes: Redox-Triggered Chiroptical Tuning in the IR and Near-IR Spectral Regions and Suitable for Telecommunications Applications. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8062-6	16.4	55
252	Electronic and chiroptical properties of chiral cycloiridiated complexes bearing helicenic NHC ligands. <i>Chemical Communications</i> , 2016 , 52, 9243-6	5.8	22

251	Impact of the Kohn-Sham Delocalization Error on the 4f Shell Localization and Population in Lanthanide Complexes. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 3109-21	6.4	38
250	The roles of 4f- and 5f-orbitals in bonding: a magnetochemical, crystal field, density functional theory, and multi-reference wavefunction study. <i>Dalton Transactions</i> , 2016 , 45, 11508-21	4.3	37
249	Conformational changes and chiroptical switching of enantiopure bis-helicenic terpyridine upon Zn(2+) binding. <i>Chemical Communications</i> , 2016 , 52, 5932-5	5.8	69
248	Simulating Third-Order Nonlinear Optical Properties Using Damped Cubic Response Theory within Time-Dependent Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 1294-304	6.4	16
247	Kohn-Sham calculations of NMR shifts for paramagnetic 3d metal complexes: protocols, delocalization error, and the curious amide proton shifts of a high-spin iron(ii) macrocycle complex. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 21051-68	3.6	28
246	Orbitals for Analyzing Bonding and Magnetism of Heavy-Metal Complexes. <i>Comments on Inorganic Chemistry</i> , 2016 , 36, 215-244	3.9	23
245	Iron Alkynyl Helicenes: Redox-Triggered Chiroptical Tuning in the IR and Near-IR Spectral Regions and Suitable for Telecommunications Applications. <i>Angewandte Chemie</i> , 2016 , 128, 8194-8198	3.6	22
244	Large-Scale Synthesis of Helicene-Like Molecules for the Design of Enantiopure Thin Films with Strong Chiroptical Activity. <i>Chemistry - A European Journal</i> , 2016 , 22, 3333-3346	4.8	20
243	Bimetallic Gold(I) Complexes with Ethynyl-Helicene and Bis-Phosphole Ligands: Understanding the Role of Auophilic Interactions in their Chiroptical Properties. <i>Chemistry - A European Journal</i> , 2016 , 22, 6075-86	4.8	14
242	Calculated Resonance Vibrational Raman Optical Activity Spectra of Naproxen and Ibuprofen. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 9740-9748	2.8	14
241	Molcas 8: New capabilities for multiconfigurational quantum chemical calculations across the periodic table. <i>Journal of Computational Chemistry</i> , 2016 , 37, 506-41	3.5	1047
240	Ligand NMR Chemical Shift Calculations for Paramagnetic Metal Complexes: 5f vs 5f Actinides. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 5309-5321	6.4	23
239	Nuclear Magnetic Resonance Measurements and Electronic Structure of Pu(IV) in [(Me) ₄ N] ₂ PuCl ₆ . <i>Inorganic Chemistry</i> , 2016 , 55, 8371-80	5.1	14
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