

Achim Mller

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.

377
papers

23,353
citations

72
h-index

139
g-index

394
ext. papers

24,547
ext. citations

6.9
avg, IF

6.67
L-index

#	Paper	IF	Citations
377	Alcohols as Latent Hydrophobes: Entropically Driven Uptake of 1,2-Diol Functionalized Ligands by a Porous Capsule in Water. <i>Journal of the American Chemical Society</i> , 2019 , 141, 9170-9174	16.4	10
376	The Uptake and Assembly of Alkanes within a Porous Nanocapsule in Water: New Information about Hydrophobic Confinement. <i>Angewandte Chemie</i> , 2016 , 128, 4552-4557	3.6	9
375	Densely Packed Hydrophobic Clustering: Encapsulated Valerates Form a High-Temperature-Stable {Mo132} Capsule System. <i>Angewandte Chemie</i> , 2016 , 128, 6746-6749	3.6	1
374	Titelbild: Densely Packed Hydrophobic Clustering: Encapsulated Valerates Form a High-Temperature-Stable {Mo132} Capsule System (Angew. Chem. 23/2016). <i>Angewandte Chemie</i> , 2016 , 128, 6673-6673	3.6	
373	Densely Packed Hydrophobic Clustering: Encapsulated Valerates Form a High-Temperature-Stable {Mo132} Capsule System. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6634-7	16.4	12
372	Torque-Detected Electron Spin Resonance as a Tool to Investigate Magnetic Anisotropy in Molecular Nanomagnets. <i>Magnetochemistry</i> , 2016 , 2, 25	3.1	4
371	The Uptake and Assembly of Alkanes within a Porous Nanocapsule in Water: New Information about Hydrophobic Confinement. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 4476-81	16.4	22
370	A Unique Fluoride Nanocontainer: Porous Molecular Capsules Can Accommodate an Unusually High Number of Rather Labile Fluoride Anions. <i>Angewandte Chemie</i> , 2015 , 127, 5977-5980	3.6	4
369	A unique fluoride nanocontainer: porous molecular capsules can accommodate an unusually high number of "rather labile" fluoride anions. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5879-82	16.4	9
368	Amplified Rate Acceleration by Simultaneous Up-Regulation of Multiple Active Sites in an Endo-Functionalized Porous Capsule. <i>Journal of the American Chemical Society</i> , 2015 , 137, 12740-3	16.4	19
367	Biomimetic Approach for Ion Channels Based on Surfactant Encapsulated Spherical Porous Metal-Oxide Capsules. <i>Advanced Materials</i> , 2015 , 27, 5165-70	24	16
366	The mechanism of CO ₂ hydration: a porous metal oxide nanocapsule catalyst can mimic the biological carbonic anhydrase role. <i>Chemical Communications</i> , 2015 , 51, 15596-9	5.8	9
365	Hedgehog-shaped {Mo368} cluster: unique electronic/structural properties, surfactant encapsulation and related self-assembly into vesicles and films. <i>Soft Matter</i> , 2015 , 11, 2372-8	3.6	10
364	Porous capsules with a large number of active sites: nucleation/growth under confined conditions. <i>Chemistry - A European Journal</i> , 2015 , 21, 4321-5	4.8	8
363	Tracking "apolar" NMe ₄ ⁺ ions within two polyoxothiomolybdates that have the same pores: smaller clathrate and larger highly porous clusters in action. <i>Chemistry - A European Journal</i> , 2014 , 20, 3097-105	4.8	10
362	Capsules with highly active pores and interiors: versatile platforms at the nanoscale. <i>Chemistry - A European Journal</i> , 2014 , 20, 4862-73	4.8	46
361	Water Repellency in Hydrophobic Nanocapsules: Molecular View on Dewetting. <i>Chemistry - A European Journal</i> , 2014 , 20, 6561-6561	4.8	4

360	Keplerate cluster (Mo-132) mediated electrostatic assembly of nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2014 , 432, 144-50	9.3	5
359	Incoherent Quasielastic Neutron Scattering Study of the Relaxation Dynamics in Molybdenum-Oxide Keplerate-Type Nanocages. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 13300-13312	3.8	6
358	Encapsulated Water Inside Mo132 Capsules: The Role of Long-Range Correlations of about 1 nm. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 5545-5555	3.8	10
357	Molecular recognition of Ca ²⁺ cations by internal and external receptors/interfaces in a spherical porous molybdenum-oxide capsule: unusual coordination scenarios. <i>Inorganic Chemistry Frontiers</i> , 2014 , 1, 740-744	6.8	6
356	Spin-forbidden transitions in the molecular nanomagnet V15. <i>Physical Review B</i> , 2014 , 90,	3.3	7
355	Water repellency in hydrophobic nanocapsules--molecular view on dewetting. <i>Chemistry - A European Journal</i> , 2014 , 20, 6659-64	4.8	10
354	Immediate Formation/Precipitation of Icosahedrally Structured Iron-Molybdenum Mixed Oxides from Solutions Upon Mixing Simple Iron(III) and Molybdate Salts. <i>Journal of Cluster Science</i> , 2014 , 25, 301-311	3	11
353	Systematic Study of the Interaction Between VIV Centres and LnIII Ions in Well Defined {V IV2 LnIII}{AsIIIW9O33}2 Sandwich-Type Clusters: Part 2. <i>Journal of Cluster Science</i> , 2013 , 24, 979-988	3	6
352	Highly Selective Li ⁺ Ion Transport by Porous Molybdenum-Oxide Keplerate-Type Nanocapsules Integrated in a Supported Liquid Membrane. <i>Israel Journal of Chemistry</i> , 2013 , 53, 102-107	3.4	17
351	Molybdate templated assembly of Ln ₁₂ Mo ₄ -type clusters (Ln = Sm, Eu, Gd) containing a truncated tetrahedron core. <i>Chemical Communications</i> , 2013 , 49, 36-8	5.8	65
350	A further step towards tuning the properties of metal-chalcogenide nanocapsules by replacing skeletal oxide by sulphide ligands. <i>Dalton Transactions</i> , 2013 , 42, 330-3	4.3	7
349	Stepwise-resolved thermodynamics of hydrophobic self-assembly. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8358-62	16.4	26
348	Molecular Metal Oxides in Protein Cages/Cavities 2013 , 25-42		1
347	An Unstable Paramagnetic Isopolyoxomolybdate Intermediate Non-Homogeneously Reduced at Different Sites and Trapped in a Host Based on Chemical Adaptability. <i>Angewandte Chemie</i> , 2013 , 125, 11981-11985	3.6	1
346	An unstable paramagnetic isopolyoxomolybdate intermediate non-homogeneously reduced at different sites and trapped in a host based on chemical adaptability. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11765-9	16.4	10
345	Innenrücktitelbild: Stepwise-Resolved Thermodynamics of Hydrophobic Self-Assembly (Angew. Chem. 32/2013). <i>Angewandte Chemie</i> , 2013 , 125, 8631-8631	3.6	
344	Stepwise-Resolved Thermodynamics of Hydrophobic Self-Assembly. <i>Angewandte Chemie</i> , 2013 , 125, 8516-8520	3.6	11
343	Chemical adaptability: the integration of different kinds of matter into giant molecular metal oxides. <i>Chemistry - A European Journal</i> , 2012 , 18, 16310-8	4.8	17

342	From linking of metal-oxide building blocks in a dynamic library to giant clusters with unique properties and towards adaptive chemistry. <i>Chemical Society Reviews</i> , 2012 , 41, 7431-63	58.5	288
341	Picking up 30 CO ₂ Molecules by a Porous Metal Oxide Capsule Based on the Same Number of Receptors. <i>Angewandte Chemie</i> , 2012 , 124, 10680-10683	3.6	13
340	Picking up 30 CO ₂ molecules by a porous metal oxide capsule based on the same number of receptors. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10528-31	16.4	23
339	The Amazingly Complex Behaviour of Molybdenum Blue Solutions. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2012 , 103-117	0.2	
338	Catalysis in a porous molecular capsule: activation by regulated access to sixty metal centers spanning a truncated icosahedron. <i>Journal of the American Chemical Society</i> , 2012 , 134, 13082-8	16.4	70
337	Spontaneous self-assembly of a giant spherical metal-oxide Keplerate: addition of one building block induces "immediate" formation of the complementary one from a constitutional dynamic library. <i>Chemical Communications</i> , 2012 , 48, 350-2	5.8	38
336	Encapsulation of Keggin-type anions in reduced molybdenum(VI)-type Keplerates as a general phenomenon. <i>Inorganica Chimica Acta</i> , 2012 , 389, 107-111	2.7	11
335	Oxo-Metalate Building Blocks: Conceptual Competitors for Tetravalent Carbon?. <i>Israel Journal of Chemistry</i> , 2011 , 51, 176-178	3.4	10
334	Guests on Different Internal Capsule Sites Exchange with Each Other and with the Outside. <i>Angewandte Chemie</i> , 2011 , 123, 430-434	3.6	21
333	A Nanosized Molybdenum Oxide Wheel with a Unique Electronic-Necklace Structure: STM Study with Submolecular Resolution. <i>Angewandte Chemie</i> , 2011 , 123, 7156-7159	3.6	9
332	Titelbild: A Nanosized Molybdenum Oxide Wheel with a Unique Electronic-Necklace Structure: STM Study with Submolecular Resolution (Angew. Chem. 31/2011). <i>Angewandte Chemie</i> , 2011 , 123, 7065-7065	3.6	
331	Softening of Pore and Interior Properties of a Metal-Oxide-Based Capsule: Substituting 60 Oxide by 60 Sulfide Ligands. <i>Angewandte Chemie</i> , 2011 , 123, 12534-12537	3.6	15
330	Guests on different internal capsule sites exchange with each other and with the outside. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 410-4	16.4	45
329	A nanosized molybdenum oxide wheel with a unique electronic-necklace structure: STM study with submolecular resolution. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7018-21	16.4	31
328	Cover Picture: A Nanosized Molybdenum Oxide Wheel with a Unique Electronic-Necklace Structure: STM Study with Submolecular Resolution (Angew. Chem. Int. Ed. 31/2011). <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6931-6931	16.4	
327	Softening of pore and interior properties of a metal-oxide-based capsule: substituting 60 oxide by 60 sulfide ligands. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12326-9	16.4	35
326	Reduced molybdenum-oxide-based core-shell hybrids: "blue" electrons are delocalized on the shell. <i>Chemistry - A European Journal</i> , 2011 , 17, 6635-42	4.8	20
325	Hydrophobic interactions and clustering in a porous capsule: option to remove hydrophobic materials from water. <i>Chemistry - A European Journal</i> , 2011 , 17, 9634-9	4.8	40

324	Self-recognition among different polyprotic macroions during assembly processes in dilute solution. <i>Science</i> , 2011 , 331, 1590-2	33.3	99
323	Unveiling the transient template in the self-assembly of a molecular oxide nanowheel. <i>Science</i> , 2010 , 327, 72-4	33.3	227
322	Structure-related frustrated magnetism of nanosized polyoxometalates: aesthetics and properties in harmony. <i>Dalton Transactions</i> , 2010 , 21-36	4.3	210
321	A molecular magnet confined in the nanocage of a globular protein. <i>ChemPhysChem</i> , 2010 , 11, 389-93	3.2	6
320	Porous capsules $\{(M)M(5)\}_{12}Fe(III)_{30}$ (M=Mo(VI), W(VI)): sphere surface supramolecular chemistry with 20 ammonium ions, related solution properties, and tuning of magnetic exchange interactions. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 514-9	16.4	70
319	Coordination chemistry of copper-molybdates with alkoxide ligands: The $\{Mo_4O_{10}(OMe)_6\}_2$ and $[Mo_2O_4\{RC(CH_2O)_3\}_2]_2$ clusters as building blocks. <i>Inorganica Chimica Acta</i> , 2010 , 363, 1386-1394	2.7	10
318	Unprecedented and Differently Applicable Pentagonal Units in a Dynamic Library: A Keplerate of the Type $\{(W)W_5\}_{12}\{Mo_2\}_{30}$. <i>Angewandte Chemie</i> , 2009 , 121, 155-159	3.6	47
317	Gated and differently functionalized (new) porous capsules direct encapsulates' structures: higher and lower density water. <i>Chemistry - A European Journal</i> , 2009 , 15, 1844-52	4.8	61
316	Supramolecular Chemistry on a Cluster Surface: Fixation/Complexation of Potassium and Ammonium Ions with Crown-Ether-Like Rings. <i>Angewandte Chemie</i> , 2009 , 121, 6048-6051	3.6	14
315	A Spherical 24 Butyrate Aggregate with a Hydrophobic Cavity in a Capsule with Flexible Pores: Confinement Effects and Uptake/Release Equilibria at Elevated Temperatures. <i>Angewandte Chemie</i> , 2009 , 121, 8195-8200	3.6	27
314	Unprecedented and differently applicable pentagonal units in a dynamic library: a keplerate of the type $\{(W)W_5\}_{12}\{Mo_2\}_{30}$. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 149-53	16.4	98
313	Supramolecular chemistry on a cluster surface: fixation/complexation of potassium and ammonium ions with crown-ether-like rings. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 5934-7	16.4	23
312	A spherical 24 butyrate aggregate with a hydrophobic cavity in a capsule with flexible pores: confinement effects and uptake-release equilibria at elevated temperatures. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 8051-6	16.4	59
311	Predicting a structured future. <i>Nature Chemistry</i> , 2009 , 1, 13-4	17.6	23
310	Polyoxometalates: Fascinating structures, unique magnetic properties. <i>Coordination Chemistry Reviews</i> , 2009 , 253, 2315-2327	23.2	474
309	Polyoxotungstates now also with pentagonal units: supramolecular chemistry and tuning of magnetic exchange in $\{(M)M_5\}_{12}V_{30}$ Keplerates (M = Mo, W). <i>Chemical Communications</i> , 2009 , 3351-3	5.8	52
308	Molybdenum-oxide based unique polyprotic nanoacids showing different deprotonations and related assembly processes in solution. <i>Dalton Transactions</i> , 2009 , 5094-100	4.3	39
307	Vectorial growth/regulations in a $\{P_8W_{48}\}$ -type polyoxotungstate compartment: trapped unusual molybdenum oxide acts as a handle. <i>Chemical Communications</i> , 2009 , 7491-3	5.8	26

306	Flexible pores of a metal oxide-based capsule permit entry of comparatively larger organic guests. <i>Journal of the American Chemical Society</i> , 2009 , 131, 6380-2	16.4	89
305	Crossover of the magnetic sublevels in spin frustrated clusters: The role of static and dynamic deformations. <i>Solid State Sciences</i> , 2008 , 10, 1814-1819	3.4	8
304	Synthetic ion channels via self-assembly: a route for embedding porous polyoxometalate nanocapsules in lipid bilayer membranes. <i>Nano Letters</i> , 2008 , 8, 3916-21	11.5	46
303	Cation behavior at an artificial cell interface: binding distinguished by ion hydration energetics and size. <i>Chemical Communications</i> , 2008 , 948-50	5.8	24
302	Multiple nearest-neighbor exchange model for the frustrated magnetic molecules {Mo ₇₂ Fe ₃₀ } and {Mo ₇₂ Cr ₃₀ }. <i>Physical Review B</i> , 2008 , 77,	3.3	36
301	Cellular cation transport studied by ⁶ Li and ²³ Na NMR in a porous Mo ₁₃₂ Keplerate type nano-capsule as model system. <i>Magnetic Resonance in Chemistry</i> , 2008 , 46 Suppl 1, S24-9	2.1	8
300	Azotobacter vinelandii metal storage protein: "classical" inorganic chemistry involved in Mo/W uptake and release processes. <i>ChemBioChem</i> , 2008 , 9, 595-602	3.8	17
299	Nucleation process in the cavity of a 48-tungstophosphate wheel resulting in a 16-metal-centre iron oxide nanocluster. <i>Chemistry - A European Journal</i> , 2008 , 14, 1186-95	4.8	135
298	Confinement and step-wise reopening of channels in an artificial cell/inorganic capsule: a ⁷ Li NMR study. <i>Chemistry - A European Journal</i> , 2008 , 14, 8808-11	4.8	17
297	Wolfram oder Tungsten? Die Namen der chemischen Elemente. <i>Chemie in Unserer Zeit</i> , 2008 , 42, 20-23	0.2	
296	Field induced crossover in antiferromagnetic spin-frustrated clusters: Influence of static and dynamic structural deformations. <i>Journal of Molecular Structure</i> , 2008 , 890, 170-177	3.4	5
295	The behaviour of in a water nanodrop encapsulated within a highly charged porous metaloxide nanocontainer: A thermoanalytical study. <i>Inorganic Chemistry Communication</i> , 2008 , 11, 110-113	3.1	3
294	Rates of ligand exchange between >Fe ^{III} -OH ₂ functional groups on a nanometer-sized aqueous cluster and bulk solution. <i>Inorganic Chemistry</i> , 2007 , 46, 7087-92	5.1	35
293	Static magnetization of V ₁₅ cluster at ultra-low temperatures: precise estimation of antisymmetric exchange. <i>Inorganic Chemistry</i> , 2007 , 46, 161-9	5.1	53
292	Mimicking biological cation-transport based on sphere-surface supramolecular chemistry: simultaneous interaction of porous capsules with molecular plugs and passing cations. <i>Chemistry - A European Journal</i> , 2007 , 13, 7650-8	4.8	45
291	Towards biological supramolecular chemistry: a variety of pocket-templated, individual metal oxide cluster nucleations in the cavity of a mo/w-storage protein. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 2408-13	16.4	79
290	Metal-oxide-based nucleation process under confined conditions: two mixed-valence V ₆ -type aggregates closing the W ₄₈ wheel-type cluster cavities. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 4477-80	16.4	96
289	Extending the {(Mo)MO ₅ } ₁₂ M ₃₀ capsule keplerate sequence: a {Cr ₃₀ } cluster of S=3/2 metal centers with a {Na(H ₂ O) ₁₂ } encapsulate. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6106-10	16.4	124

288	Towards Biological Supramolecular Chemistry: A Variety of Pocket-Templated, Individual Metal Oxide Cluster Nucleations in the Cavity of a Mo/W-Storage Protein. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 2970-2970	16.4	1
287	Towards Biological Supramolecular Chemistry: A Variety of Pocket-Templated, Individual Metal Oxide Cluster Nucleations in the Cavity of a Mo/W-Storage Protein. <i>Angewandte Chemie</i> , 2007 , 119, 2460-2465 ²⁷	3.6	27
286	Metal-Oxide-Based Nucleation Process under Confined Conditions: Two Mixed-Valence V6-Type Aggregates Closing the W48 Wheel-Type Cluster Cavities. <i>Angewandte Chemie</i> , 2007 , 119, 4561-4564	3.6	24
285	Extending the {(Mo)Mo5}12M30 Capsule Keplerate Sequence: A {Cr30} Cluster of S=3/2 Metal Centers with a {Na(H2O)12} Encapsulate. <i>Angewandte Chemie</i> , 2007 , 119, 6218-6222	3.6	48
284	Towards Biological Supramolecular Chemistry: A Variety of Pocket-Templated, Individual Metal Oxide Cluster Nucleations in the Cavity of a Mo/W-Storage Protein. <i>Angewandte Chemie</i> , 2007 , 119, 3028-3028 ¹	3.6	28
283	Self-association based on interfacial structured water leads to {Mo154} approximately 1165 super clusters: a dielectric study. <i>ChemPhysChem</i> , 2007 , 8, 646-9	3.2	27
282	Making 3d ^{4f} hexanuclear clusters from heterotrinary cationic building blocks. <i>Inorganica Chimica Acta</i> , 2007 , 360, 4044-4050	2.7	33
281	Antisymmetric exchange and pseudo Jahn-Teller instability in spin-frustrated metal clusters. <i>Journal of Molecular Structure</i> , 2007 , 838, 124-132	3.4	29
280	Nanometer-sized molybdenum-iron oxide capsule-surface modifications: external and internal. <i>Small</i> , 2007 , 3, 986-92	11	9
279	Foreword: A Special Issue to Dieter Fenske. <i>Journal of Cluster Science</i> , 2007 , 18, 473-475	3	
278	Systematic Study of the Interaction Between VIV Centres and Lanthanide Ions MIII in Well Defined {VIV 2MIII}{AsIIW9O33}2 Sandwich Type Clusters: Part 1. <i>Journal of Cluster Science</i> , 2007 , 18, 711-719	3	55
277	Hydrophilic Inorganic Macro-Ions in Solution: Unprecedented Self-Assembly Emerging from Historical "Blue Waters". <i>Journal of Chemical Education</i> , 2007 , 84, 526	2.4	32
276	Nanosopic Molecular Cluster V15: High-Field Epr and Magnetization at Ultra-Low Temperatures. <i>Chemistry Journal of Moldova</i> , 2007 , 2, 17-35	0.9	2
275	"Gating" the pores of a metal oxide based capsule: after initial cation uptake subsequent cations are found hydrated and supramolecularly fixed above the pores. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 460-5	16.4	66
274	Reinecke Anion Derivatives and Homobinuclear Complexes as Tectons in Designing Heteropolymetallic Systems. <i>European Journal of Inorganic Chemistry</i> , 2006 , 2006, 903-907	2.3	18
273	[Ni(S4)2]2 ²⁻ , ein homoleptischer Tetrasulfido-Nickel(II)-Komplex. <i>Angewandte Chemie</i> , 2006 , 95, 1030-1030 ⁶	3.6	14
272	Gating the Pores of a Metal Oxide Based Capsule: After Initial Cation Uptake Subsequent Cations Are Found Hydrated and Supramolecularly Fixed above the Pores. <i>Angewandte Chemie</i> , 2006 , 118, 474-479	3.6	19
271	Low temperature EPR spectra of the mesoscopic cluster V15: the role of antisymmetric exchange. <i>Journal of Chemical Physics</i> , 2006 , 125, 054714	3.9	45

270	Reactions inside a porous nanocapsule/artificial cell: encapsulates' structuring directed by internal surface deprotonations. <i>Chemical Communications</i> , 2006 , 3396-8	5.8	19
269	Deprotonations and charges of well-defined {Mo ₇₂ Fe ₃₀ } nanoacids simply stepwise tuned by pH allow control/variation of related self-assembly processes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 15914-20	16.4	137
268	Formation of a "less stable" polyanion directed and protected by electrophilic internal surface functionalities of a capsule in growth: [{Mo ₆ O ₁₉ } ₂ - subset {Mo(VI) ₇₂ Fe(III) ₃₀ O ₂₅₂ (ac) ₂₀ (H ₂ O) ₉₂ } ₄ -. <i>Chemical Communications</i> , 2006 , 3066-8	5.8	43
267	High-field magnetization of V ₁₅ cluster at ultra-low temperatures: Importance of antisymmetric exchange and its precise estimation. <i>Chemical Physics Letters</i> , 2006 , 428, 361-366	2.5	23
266	Chemistry at the apical position of square-pyramidal copper(II) complexes: Synthesis, crystal structures, and magnetic properties of homopolynuclear complexes with azido bridges containing [Cu(AA)(BB)] ⁺ moieties (AA=acetylacetonate; BB=1,10-phenanthroline, bipy=2,2'-bipyridine). <i>Inorganica Chimica Acta</i> , 2006 , 359, 459-467	2.7	31
265	Crossover of the magnetic levels and adiabatic magnetization of the mesoscopic cluster V ₁₅ . <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 353, 48-59	2.3	36
264	Counteraction transport modeled by porous spherical molybdenum oxide based nanocapsules. <i>Chemistry - an Asian Journal</i> , 2006 , 1, 76-81	4.5	25
263	Electrocatalytic Reduction of O ₂ by a Cu(II)-Substituted Electron-Rich Wheel-Type Oxomolybdate Nanocluster. <i>Journal of Cluster Science</i> , 2006 , 17, 333-348	3	6
262	Introduction: A Special Issue Dedicated to Michael T. Pope. <i>Journal of Cluster Science</i> , 2006 , 17, 139-141	3	5
261	Porous inorganic capsules in action: modelling transmembrane cation-transport parameter-dependence based on water as vehicle. <i>Chemical Communications</i> , 2005 , 3912-4	5.8	32
260	Ferrimagnetically ordered nanosized polyoxomolybdate-based cluster spheres. <i>Chemical Communications</i> , 2005 , 5621-3	5.8	35
259	Construction of Tube- and Ladderlike Copper(II) Coordination Polymers Based on the Nicotinato Tecton. <i>Crystal Growth and Design</i> , 2005 , 5, 707-711	3.5	30
258	Multifunctional metal oxide based nanoobjects: spherical porous capsules/artificial cells and wheel-shaped species with unprecedented materials properties. <i>Journal of Materials Chemistry</i> , 2005 , 15, 4673		44
257	Extended Structures Constructed from Alkoxo-Bridged Binuclear Complexes as Nodes and Bis(4-pyridyl)ethylene as a Spacer. <i>Crystal Growth and Design</i> , 2005 , 5, 279-282	3.5	35
256	Chameleon water: assemblies confined in nanocapsules. <i>Journal of Molecular Liquids</i> , 2005 , 118, 155-1626		33
255	Coordination chemistry under confined conditions: a simplified illustrative view. <i>Comptes Rendus Chimie</i> , 2005 , 8, 47-56	2.7	17
254	Linking Giant Molybdenum Oxide Based Nano-Objects Based on Well-Defined Surfaces in Different Phases. <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 3561-3570	2.3	30
253	Triangular geometrical and magnetic motifs uniquely linked on a spherical capsule surface. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3857-61	16.4	124

252	Porous capsules allow pore opening and closing that results in cation uptake. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 7757-61	16.4	45
251	Triangular Geometrical and Magnetic Motifs Uniquely Linked on a Spherical Capsule Surface. <i>Angewandte Chemie</i> , 2005 , 117, 3925-3929	3.6	43
250	Porous Capsules Allow Pore Opening and Closing That Results in Cation Uptake. <i>Angewandte Chemie</i> , 2005 , 117, 7935-7939	3.6	17
249	Oxomolybdates: From Structures to Functions in a New Era of Nanochemistry 2005 , 452-475		4
248	A new type of metalloprotein: The Mo storage protein from azotobacter vinelandii contains a polynuclear molybdenum-oxide cluster. <i>ChemBioChem</i> , 2005 , 6, 405-13	3.8	45
247	A small cavity with reactive internal shell atoms spanned by four {As(W/V)9}-type building blocks allows host-guest chemistry under confined conditions. <i>Chemistry - A European Journal</i> , 2005 , 11, 5849-54 ⁸	4.8	14
246	Expanding the Hierarchy of Metal-Oxide Building Blocks from Fragments via Clusters to Networks: A $2\left[\left\{\text{Mo}_{17}(\text{NO})_2\right\}_3\left\{\text{Mo}_V\right\}_3\left\{\text{Fe}^{\text{III}}\right\}_6\left(\text{Fe}^{\text{II}}\ 1.5\right)\right]$ -Type Layer Compound. <i>Journal of Cluster Science</i> , 2005 , 16, 391-396	3	2
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128	[(AsOH) ₃ (MoO ₃) ₃ (AsMo ₉ O ₃₃)] ₇ □and [(AsOH) ₆ (MoO ₃) ₂ (O ₂ Mo?O?MoO ₂) ₂ -(AsMo ₉ O ₃₃) ₂] ₁₀ □		33
127	Coupling of Highly Negatively Charged Building Blocks. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 171-173		
	Molybdenum Blue: A 200 Year Old Mystery Unveiled. <i>Angewandte Chemie International Edition in English</i> , 1996 , 35, 1206-1208		86

126	The molybdenum nitrogenase from wild-type <i>Xanthobacter autotrophicus</i> exhibits properties reminiscent of alternative nitrogenases. <i>FEBS Journal</i> , 1995 , 230, 666-75		21
125	[Mo ₁₅₄ (NO) ₁₄ O ₄₂₀ (OH) ₂₈ (H ₂ O) ₇₀](25 ± 5) ein wasserlösliches Riesenrad mit mehr als 700 Atomen und einer relativen Molekülmasse von ca. 24000. <i>Angewandte Chemie</i> , 1995 , 107, 2293-2295	3.6	95
124	Supramolekulare Anorganische Chemie: von Gästen in kleinen und großen Wirten. <i>Angewandte Chemie</i> , 1995 , 107, 2505-2539	3.6	102
123	[Mo ₁₅₄ (NO) ₁₄ O ₄₂₀ (OH) ₂₈ (H ₂ O) ₇₀](25 ± 5) A Water-Soluble Big Wheel with More than 700 Atoms and a Relative Molecular Mass of About 24000. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 2122-2124		288
122	Supramolecular Inorganic Chemistry: Small Guests in Small and Large Hosts. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 2328-2361		430
121	[Mo ₅₇ Fe ₆ (NO) ₆ O ₁₇₄ (OH) ₃ (H ₂ O) ₂₄] ₁₅ A Highly Symmetrical Giant Cluster with an Unusual Cavity and the Possibility of Positioning Paramagnetic Centers on Extremely Large Cluster Surfaces. <i>Angewandte Chemie International Edition in English</i> , 1994 , 33, 849-851		64
120	[Mo ₅₇ Fe ₆ (NO) ₆ O ₁₇₄ (OH) ₃ (H ₂ O) ₂₄] ₁₅ Über einen hochsymmetrischen Riesencluster mit ungewöhnlichem Hohlraum und die Möglichkeit der Positionierung von paramagnetischen Zentren auf extrem großen Clusteroberflächen. <i>Angewandte Chemie</i> , 1994 , 106, 897-899	3.6	23
119	Spectroscopic investigations of the unusual giant cluster anion [Mo ₅₇ Fe ₆ (NO) ₆ O ₁₇₄ (OH) ₃ (H ₂ O) ₂₄] ₁₅ containing 276 non-hydrogen atoms. <i>Journal of Molecular Structure</i> , 1994 , 321, 215-223	3.4	5
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114	Steuerung der Verknüpfung anorganischer Einheiten in V-O-Verbindungen: von Clusterhüllen als molekularen Containern über Clusteraggregate zu Festkörperstrukturen. <i>Angewandte Chemie</i> , 1993 , 105, 916-918	3.6	34
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110	Characterization of amorphous substances by studying isotopically labelled compounds with FAB/MS: evidence for extrusion of triangular Mo ³⁺ clusters from a mixture of 92MoS ₃ and 100MoS ₃ by reaction with OH ⁻ . <i>Journal of the Chemical Society Chemical Communications</i> , 1992 , 1795-1796		22
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108	EPR spectroscopic characterization of an 'iron only' nitrogenase. S = 3/2 spectrum of component 1 isolated from Rhodobacter capsulatus. <i>FEBS Letters</i> , 1992 , 303, 36-40	3.8	30
107	Bergangsmetall-substituierte Diphosphene, XXIV [1] Cheletrope [1+4]-Cycloaddition von Azodicarbonsäureestern und -amiden an das metallsubstituierte Diphosphen ($(\eta\text{-C5Me5})(\text{CO})_2\text{Fe} - \text{P} = \text{P} - \text{Mes}^*$ ($\text{Mes}^* = 2,4,6\text{-tBu}_3\text{C}_6\text{H}_2$). Struktur von Transition Metal Substituted Diphosphenes, XXIV [1] Cheletropic [1+4] Cycloaddition of Azodicarboxylic Esters and Amides to the Metal	1	5
106	A Novel Host/Guest System with a Nanometer Large Cavity for Anions and Cations: $[\text{2NH}, \text{2Cl}] \cdot \text{V14O}_{22}(\text{OH})_4(\text{H}_2\text{O})_2 \cdot (\text{C}_6\text{H}_5\text{PO}_3)_8$ <i>Angewandte Chemie International Edition in English</i> , 1992 , 31, 1192-1195		75
105	Ein neuartiges Wirt/Gast-System mit einem nanometergroßen Hohlraum mit Kationen und Anionen: $[\text{2 NH}, \text{2 Cl}] \cdot \text{V14O}_{22}(\text{OH})_4(\text{H}_2\text{O})_2(\text{C}_6\text{H}_5\text{PO}_3)_8$ <i>Angewandte Chemie</i> , 1992 , 104, 1214-1216	3.6	25
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102	Demonstration of a molybdenum- and vanadium-independent nitrogenase in a nifHDK-deletion mutant of Rhodobacter capsulatus. <i>FEBS Journal</i> , 1991 , 195, 653-61		94
101	Polyoxometalate Chemistry: An Old Field with New Dimensions in Several Disciplines. <i>Angewandte Chemie International Edition in English</i> , 1991 , 30, 34-48		2956
100	Formation of a Cluster Sheath around a Central Cluster by a Self-Organization Process—the Mixed Valence Polyoxovanadate $[\text{V}_{34}\text{O}_{82}]^{10-}$. <i>Angewandte Chemie International Edition in English</i> , 1991 , 30, 588-590		109
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98	Chemie der Polyoxometallate: Aktuelle Variationen über ein altes Thema mit interdisziplinären Bezügen. <i>Angewandte Chemie</i> , 1991 , 103, 56-70	3.6	478
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39	Eine einfache Darstellung der binären Metall-Schwefel-Cluster [Mo ₃ S ₁₃] ²⁻ und [Mo ₂ S ₁₂] ²⁻ aus MoO ₄ ²⁻ in praktisch quantitativer Ausbeute. <i>Chemische Berichte</i> , 1979 , 112, 778-780		87
38	Generation of the triangulo-Group MOV- μ S ₂ in the μ -condensation of [MoVIO ₂ S ₂] ₂ to [MoO ₂ S ₂ (S ₂) ₂] ₂ . <i>Angewandte Chemie International Edition in English</i> , 1979 , 18, 530-531		31
37	S als μ -end-on- und zugleich μ -side-on-gebundener Ligand im neuartigen Übergangsmetall-Komplex [Mo ₄ (NO) ₄ S ₁₃] ⁴⁻ . <i>Angewandte Chemie</i> , 1979 , 91, 158-159	3.6	25

36	Erzeugung der triangulo-Gruppe $\text{MoV}\text{-}\beta\text{S}_2$ bei der Kondensation von $[\text{MoVIO}_2\text{S}_2]_2$ zu $[\text{MoV}_2\text{O}_2\text{S}_2(\text{S}_2)_2]$ <i>Angewandte Chemie</i> , 1979 , 91, 565-565	3.6	18
35	$[\text{Au}_2(\text{WS}_4)_2]$ A Novel Inorganic Ring System. <i>Angewandte Chemie International Edition in English</i> , 1978 , 17, 52-52		12
34	X-Ray crystal and molecular structure of $[\text{W}_2\text{S}_8\text{Ag}_4(\text{PPh}_3)_4]$, a compound having a novel metal-sulphur cage fused by two connected six-membered WS_3Ag_2 rings. <i>Journal of the Chemical Society Chemical Communications</i> , 1978 , 739-739		17
33	Thioheteroanionen Unusual Metal-Ligand Interaction and Reactions. <i>Angewandte Chemie International Edition in English</i> , 1977 , 16, 705-707		34
32	Halogenonitrosylmolybdate Einfache, monomere Mol-Komplexe. <i>Angewandte Chemie</i> , 1977 , 89, 189-190	3.6	9
31	Halogenonitrosylmolybdate Isolierung des ersten klassischen Mol-Komplexes. <i>Angewandte Chemie</i> , 1977 , 89, 479-480	3.6	7
30	Thio-Heteroanionen Außergewöhnliche Metall-Liganden-Wechselwirkung und Reaktionen. <i>Angewandte Chemie</i> , 1977 , 89, 748-750	3.6	21
29	Vibrational spectra of oxo-, thio-, and selenometallates of transition elements in the solid state 1976 , 81-139		130
28	Notizen: Zur Kenntnis und Struktur des Tetrathio-perhenat-Ions in $(\text{C}_5\text{H}_6)_4\text{P}[\text{ReS}_4]$. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1976 , 31, 1287-1288	1	5
27	Infrared spectrum, vibrational assignment, and normal coordinate analysis of the bis(tetrathio-tungstato)-nickel complex. <i>Journal of Molecular Structure</i> , 1975 , 25, 43-51	3.4	13
26	Vibrational spectra of nitrogen-15-substituted hexa-amminenickel(II) chloride, hexa-amminecobalt(III) chloride, and tetra-amminezinc(II) iodide. <i>Journal of the Chemical Society Dalton Transactions</i> , 1975 , 2199		13
25	Die Schwingungsspektren von $\text{Cs}_250\text{Cr}_2\text{O}_7$ und $\text{Cs}_253\text{Cr}_2\text{O}_7$ / Vibrational Spectra of $\text{Cs}_250\text{Cr}_2\text{O}_7$ and $\text{Cs}_253\text{Cr}_2\text{O}_7$. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1974 , 29, 58-60	1	10
24	Die Anwendbarkeit verschiedener Näherungsmethoden zur Berechnung von Kraftkonstanten bei Sekulargleichungen der Ordnung $n > 2$ / The Applicability of Different Approximation Methods for the Calculation of Force Constants in Secular Equations of Order $n > 2$. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 1974 , 29, 332-337	1.4	8
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22	Über die NH_3 -Docking-Schwingung in Amminmetallkomplexen. <i>Journal of Molecular Structure</i> , 1973 , 15, 283-287	3.4	9
21	Die Schwingungsspektren von Strontium- und Bariumorthovanadat. <i>Journal of Molecular Structure</i> , 1972 , 11, 453-457	3.4	20
20	Notizen: Röntgenographische Daten verschiedener Amminmetalltetraoxometallate / X-Ray Data of Some Amminometalltetraoxometallates. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 1971 , 26, 483-484	1	13
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15	Bergangsmetallchalkogen-Verbindungen. Die Reaktionen von H ₂ Se mit Dithio-Anionen des Molybdäns und Wolframs. Darstellung und Eigenschaften von Dithioselenomolybdaten und -wolframaten. <i>Chemische Berichte</i> , 1969 , 102, 2603-2608		15
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