Lee Cronin

List of Publications by Year in Descending Order

516 papers	28,179 citations	81 h-index	146 g-index
658 ext. papers	31,172 ext. citations	10.2 avg, IF	7.53 L-index

#	Paper	IF	Citations
516	Hydrogen from water electrolysis **2022**, 559-591		1
515	Investigating the autocatalytically driven formation of Keggin-based polyoxometalate clusters. *Matter*, **2022**, 5, 302-313	12.7	0
514	Exploring the Hidden Constraints that Control the Self-Assembly of Nanomolecular Inorganic Clusters. *Bulletin of Japan Society of Coordination Chemistry*, **2021**, 78, 11-17	0.3	
513	Discovering New Chemistry with an Autonomous Robotic Platform Driven by a Reactivity-Seeking Neural Network. *ACS Central Science*, **2021**, 7, 1821-1830	16.8	3
512	Facile and Reproducible Electrochemical Synthesis of the Giant Polyoxomolybdates. *Journal of the American Chemical Society*, **2021**, 143, 20059-20063	16.4	0
511	Advances in gigantic polyoxomolybdate chemistry. *Advances in Inorganic Chemistry*, **2021**, 78, 227-267	2.1	2
510	Exploring the Geometric Space of Metal-Organic Polyhedrons (MOPs) of Metal-Oxo Clusters. *Inorganic Chemistry*, **2021**, 60, 14772-14778	5.1	0
509	Digitizing Chemistry Using the Chemical Processing Unit: From Synthesis to Discovery. *Accounts of Chemical Research*, **2021**, 54, 253-262	24.3	18
508	A molecular computing approach to solving optimization problems via programmable microdroplet arrays. *Matter*, **2021**, 4, 1107-1124	12.7	1
507	Identifying molecules as biosignatures with assembly theory and mass spectrometry. *Nature Communications*, **2021**, 12, 3033	17.4	20
506	A robotic prebiotic chemist probes long term reactions of complexifying mixtures. *Nature Communications*, **2021**, 12, 3547	17.4	3
505	Convergence of multiple synthetic paradigms in a universally programmable chemical synthesis machine. *Nature Chemistry*, **2021**, 13, 63-69	17.6	24
504	[Fe]: a frustrated, centred tetrakis hexahedron. *Chemical Communications*, **2021**, 57, 8925-8928	5.8	1
503	Influence of the Contact Geometry and Counterions on the Current Flow and Charge Transfer in Polyoxometalate Molecular Junctions: A Density Functional Theory Study. *Journal of Physical Chemistry C*, **2021**, 125, 3599-3610	3.8	10
502	Enantioselective Recognition of Racemic Amino Alcohols in Aqueous Solution by Chiral Metal-Oxide Keplerate {Mo } Cluster Capsules. *Chemistry - A European Journal*, **2021**, 27, 12327-12334	4.8	3
501	Chemputation and the Standardization of Chemical Informatics. *Jacs Au*, **2021**, 1, 1572-1587		4
500	Standardization and Control of Grignard Reactions in a Universal Chemical Synthesis Machine using online NMR. *Angewandte Chemie - International Edition*, **2021**, 60, 23202-23206	16.4	2

499	Robotic Stepwise Synthesis of Hetero-Multinuclear Metal Oxo Clusters as Single-Molecule Magnets. *Journal of the American Chemical Society*, **2021**, 143, 12809-12816	16.4	4
498	Standardisierung und Kontrolle von Grignard-Reaktionen mittels Online-NMR in einer universellen chemischen Syntheseplattform. *Angewandte Chemie*, **2021**, 133, 23388	3.6	0
497	Exploring and mapping chemical space with molecular assembly trees. *Science Advances*, **2021**, 7, eabj2465	14.3	1
496	Design of Experiments for Optimization of Polyoxometalate Syntheses. *Chemistry of Materials*, **2021**, 33, 7263-7271	9.6	1
495	Titelbild: Standardisierung und Kontrolle von Grignard-Reaktionen mittels Online-NMR in einer universellen chemischen Syntheseplattform (Angew. Chem. 43/2021). *Angewandte Chemie*, **2021**, 133, 23213	3.6	
494	Elucidating the paramagnetic interactions of an inorganic-organic hybrid radical-functionalized Mn-Anderson cluster. *Dalton Transactions*, **2021**, 50, 2350-2353	4.3	2
493	Optimization of Formulations Using Robotic Experiments Driven by Machine Learning DoE. *Cell Reports Physical Science*, **2021**, 2, 100295	6.1	8
492	Exploring the sequence space of unknown oligomers and polymers. *Cell Reports Physical Science*, **2021**, 2, 100685	6.1	1
491	An Autonomous Chemical Robot Discovers the Rules of Inorganic Coordination Chemistry without Prior Knowledge. *Angewandte Chemie*, **2020**, 132, 11352-11357	3.6	3
490	Spontaneous formation of autocatalytic sets with self-replicating inorganic metal oxide clusters. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 10699-10705	11.5	25
489	A nanomaterials discovery robot for the Darwinian evolution of shape programmable gold nanoparticles. *Nature Communications*, **2020**, 11, 2771	17.4	35
488	A programmable chemical computer with memory and pattern recognition. *Nature Communications* , **2020**, 11, 1442	17.4	12
487	A Crystallization Robot for Generating True Random Numbers Based on Stochastic Chemical Processes. *Matter*, **2020**, 2, 649-657	12.7	7
486	Embedding alkenes within an icosahedral inorganic fullerene {(NH)[MoO(L)(HO)]} for trapping volatile organics. *Chemical Science*, **2020**, 11, 2388-2393	9.4	10
485	Optical monitoring of polymerizations in droplets with high temporal dynamic range. *Chemical Science*, **2020**, 11, 2647-2656	9.4	6
484	A curious formulation robot enables the discovery of a novel protocell behavior. *Science Advances*, **2020**, 6, eaay4237	14.3	15
483	Decoupled electrolysis using a silicotungstic acid electron-coupled-proton buffer in a proton exchange membrane cell. *Electrochimica Acta*, **2020**, 331, 135255	6.7	13
482	A universal system for digitization and automatic execution of the chemical synthesis literature. *Science*, **2020**, 370, 101-108	33.3	55

481	Reactivity, Formation, and Solubility of Polyoxometalates Probed by Calorimetry. *Journal of the American Chemical Society*, **2020**,	16.4	11
480	A Modular Programmable Inorganic Cluster Discovery Robot for the Discovery and Synthesis of Polyoxometalates. *ACS Central Science*, **2020**, 6, 1587-1593	16.8	10
479	Chemobrionics: From Self-Assembled Material Architectures to the Origin of Life. *Artificial Life*, **2020**, 26, 315-326	1.4	18
478	Synthesis, Assembly, and Sizing of Neutral, Lanthanide Substituted Molybdenum Blue Wheels {MoLn}. *Journal of the American Chemical Society*, **2020**, 142, 17508-17514	16.4	18
477	Universal Chemical Synthesis and Discovery with The Chemputer *Trends in Chemistry*, **2020**, 2, 4-12	14.8	52
476	An Autonomous Chemical Robot Discovers the Rules of Inorganic Coordination Chemistry without Prior Knowledge. *Angewandte Chemie - International Edition*, **2020**, 59, 11256-11261	16.4	26
475	Peptide sequence mediated self-assembly of molybdenum blue nanowheel superstructures. *Chemical Science*, **2020**, 12, 2427-2432	9.4	4
474	Emergence of Function and Selection from Recursively Programmed Polymerisation Reactions in Mineral Environments. *Angewandte Chemie - International Edition*, **2019**, 58, 11253-11256	16.4	16
473	Taming the Combinatorial Explosion of the Formose Reaction via Recursion within Mineral Environments. *ChemSystemsChem*, **2019**, 1, e1900014	3.1	3
472	Ligand-Directed Template Assembly for the Construction of Gigantic Molybdenum Blue Wheels. *Angewandte Chemie*, **2019**, 131, 10983-10988	3.6	5
471	Ligand-Directed Template Assembly for the Construction of Gigantic Molybdenum Blue Wheels. *Angewandte Chemie - International Edition*, **2019**, 58, 10867-10872	16.4	23
470	Intuition-Enabled Machine Learning Beats the Competition When Joint Human-Robot Teams Perform Inorganic Chemical Experiments. *Journal of Chemical Information and Modeling*, **2019**, 59, 2664-2671	6.1	17
469	Synthesis of polyoxometalate clusters using carbohydrates as reducing agents leads to isomer-selection. *Chemical Communications*, **2019**, 55, 5797-5800	5.8	3
468	Electrospray Mass Spectrometry Investigation into the Formation of CPO-27. *Crystal Growth and Design*, **2019**, 19, 2089-2096	3.5	2
467	Integrated synthesis of nucleotide and nucleosides influenced by amino acids. *Communications Chemistry*, **2019**, 2,	6.3	10
466	Integrated Synthesis of Gold Nanoparticles Coated with Polyoxometalate Clusters. *Inorganic Chemistry*, **2019**, 58, 4110-4116	5.1	21
465	Environmental control programs the emergence of distinct functional ensembles from unconstrained chemical reactions. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 5387-5392	11.5	23
464	Applications of 3D Printing in Synthetic Process and Analytical Chemistry **2019**, 215-256		2

463	Emergence of Function and Selection from Recursively Programmed Polymerisation Reactions in Mineral Environments. *Angewandte Chemie*, **2019**, 131, 11375	3.6	1
462	Anisotropic Polyoxometalate Cages Assembled via Layers of Heteroanion Templates. *Journal of the American Chemical Society*, **2019**, 141, 13479-13486	16.4	21
461	Tuning Redox Active Polyoxometalates for Efficient Electron-Coupled Proton-Buffer-Mediated Water Splitting. *Chemistry - A European Journal*, **2019**, 25, 11432-11436	4.8	21
460	Controlling the Reactivity of the [P W O] Inorganic Ring and Its Assembly into POMZite Inorganic Frameworks with Silver Ions. *Angewandte Chemie - International Edition*, **2019**, 58, 17282-17286	16.4	24
459	Taming the Combinatorial Explosion of the Formose Reaction via Recursion within Mineral Environments. *ChemSystemsChem*, **2019**, 1, e1900033	3.1	1
458	An [FeIII34] Molecular Metal Oxide. *Angewandte Chemie*, **2019**, 131, 17059-17062	3.6	2
457	Controlling the Reactivity of the [P8W48O184]40−Inorganic Ring and Its Assembly into POMZite Inorganic Frameworks with Silver Ions. *Angewandte Chemie*, **2019**, 131, 17442-17446	3.6	8
456	An [Fe] Molecular Metal Oxide. *Angewandte Chemie - International Edition*, **2019**, 58, 16903-16906	16.4	12
455	First Principle Simulations of Current Flow in Inorganic Molecules: Polyoxometalates (POMs) **2019**,		2
454	New directions in surface functionalization and characterization: general discussion. *Faraday Discussions*, **2019**, 219, 252-261	3.6	
453	3D designed and printed chemical generators for on demand reagent synthesis. *Nature Communications*, **2019**, 10, 5496	17.4	11
452	How to explore chemical space using algorithms and automation. *Nature Reviews Chemistry*, **2019**, 3, 119-128	34.6	103
451	Stereoselective Assembly of Gigantic Chiral Molybdenum Blue Wheels Using Lanthanide Ions and Amino Acids. *Journal of the American Chemical Society*, **2019**, 141, 1242-1250	16.4	39
450	Organic synthesis in a modular robotic system driven by a chemical programming language. *Science*, **2019**, 363,	33.3	178
449	Self-Assembly of Polyoxometalate-Peptide Hybrids in Solution: Elucidating the Contributions of Multiple Possible Driving Forces. *European Journal of Inorganic Chemistry*, **2019**, 2019, 380-386	2.3	13
448	Supercapacitors: Design and Performance of Rechargeable Sodium Ion Batteries, and Symmetrical Li-Ion Batteries with Supercapacitor-Like Power Density Based upon Polyoxovanadates (Adv. Energy Mater. 6/2018). *Advanced Energy Materials*, **2018**, 8, 1870024	21.8	1
447	Redox tuning the Weakley-type polyoxometalate archetype for the oxygen evolution reaction. *Nature Catalysis*, **2018**, 1, 208-213	36.5	66
446	Exploring Strategies To Bias Sequence in Natural and Synthetic Oligomers and Polymers. *Accounts of Chemical Research*, **2018**, 51, 649-658	24.3	29

445	Using Evolutionary Algorithms and Machine Learning to Explore Sequence Space for the Discovery of Antimicrobial Peptides. *CheM*, **2018**, 4, 533-543	16.2	56
444	Artificial intelligence exploration of unstable protocells leads to predictable properties and discovery of collective behavior. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 885-890	11.5	21
443	Digitization of multistep organic synthesis in reactionware for on-demand pharmaceuticals. *Science*, **2018**, 359, 314-319	33.3	117
442	Strategies to Explore and Develop Reversible Redox Reactions of Li-S in Electrode Architectures Using Silver-Polyoxometalate Clusters. *Journal of the American Chemical Society*, **2018**, 140, 3134-3138	16.4	76
441	Self-Sorting of Heteroanions in the Assembly of Cross-Shaped Polyoxometalate Clusters. *Journal of the American Chemical Society*, **2018**, 140, 2595-2601	16.4	49
440	Directed Self-Assembly, Symmetry Breaking, and Electronic Modulation of Metal Oxide Clusters by Pyramidal Heteroanions. *Chemistry - A European Journal*, **2018**, 24, 4399-4411	4.8	7
439	A practical, organic-mediated, hybrid electrolyser that decouples hydrogen production at high current densities. *Chemical Science*, **2018**, 9, 1621-1626	9.4	27
438	Selective hydrogenation of nitroarenes using an electrogenerated polyoxometalate redox mediator. *Chemical Communications*, **2018**, 54, 1093-1096	5.8	27
437	Spontaneous formation of a chiral (MoOS)-based cluster driven by dimeric {TeO}-based templates. *Dalton Transactions*, **2018**, 47, 6283-6287	4.3	3
436	Controlling an organic synthesis robot with machine learning to search for new reactivity. *Nature*, **2018**, 559, 377-381	50.4	288
435	Investigating the Formation of Giant {Pd} and {Pd} Macrocycles Using NMR, HPLC, and Mass Spectrometry. *Journal of the American Chemical Society*, **2018**, 140, 9379-9382	16.4	19
434	Development of a Minimal Photosystem for Hydrogen Production in Inorganic Chemical Cells. *Angewandte Chemie - International Edition*, **2018**, 57, 13066-13070	16.4	9
433	Highly reduced and protonated aqueous solutions of [PWO] for on-demand hydrogen generation and energy storage. *Nature Chemistry*, **2018**, 10, 1042-1047	17.6	113
432	Catalyst: The Metaphysics of Chemical Reactivity. *CheM*, **2018**, 4, 1759-1761	16.2	8
431	Design and Performance of Rechargeable Sodium Ion Batteries, and Symmetrical Li-Ion Batteries with Supercapacitor-Like Power Density Based upon Polyoxovanadates. *Advanced Energy Materials*, **2018**, 8, 1701021	21.8	36
430	Digital Control of Multistep Hydrothermal Synthesis by Using 3D Printed Reactionware for the Synthesis of Metal-Organic Frameworks. *Angewandte Chemie - International Edition*, **2018**, 57, 16716-16720	16.4	10
429	Digital Control of Multistep Hydrothermal Synthesis by Using 3D Printed Reactionware for the Synthesis of Metal Organic Frameworks. *Angewandte Chemie*, **2018**, 130, 16958-16962	3.6	4
428	Networking chemical robots for reaction multitasking. *Nature Communications*, **2018**, 9, 3406	17.4	36

427	Development of a Minimal Photosystem for Hydrogen Production in Inorganic Chemical Cells. *Angewandte Chemie*, **2018**, 130, 13250-13254	3.6	4
426	Approach to classify, separate, and enrich objects in groups using ensemble sorting. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 5681-5685	11.5	6
425	Exoplanet Biosignatures: Future Directions. *Astrobiology*, **2018**, 18, 779-824	3.7	58
424	Designing Algorithms To Aid Discovery by Chemical Robots. *ACS Central Science*, **2018**, 4, 793-804	16.8	45
423	A metamorphic inorganic framework that can be switched between eight single-crystalline states. *Nature Communications*, **2017**, 8, 14185	17.4	37
422	Coding the Assembly of Polyoxotungstates with a Programmable Reaction System. *Inorganic Chemistry*, **2017**, 56, 5089-5095	5.1	8
421	Exploring the Molecular Growth of Two Gigantic Half-Closed Polyoxometalate Clusters {Mo } and {Mo Ce }. *Angewandte Chemie - International Edition*, **2017**, 56, 9727-9731	16.4	32
420	Miller□Urey Spark-Discharge Experiments in the Deuterium World. *Angewandte Chemie*, **2017**, 129, 8191-8194	3.6	1
419	Miller-Urey Spark-Discharge Experiments in the Deuterium World. *Angewandte Chemie - International Edition*, **2017**, 56, 8079-8082	16.4	10
418	Spontaneous Assembly of an Organic-Inorganic Nucleic Acid Z-DNA Double-Helix Structure. *Angewandte Chemie - International Edition*, **2017**, 56, 1141-1145	16.4	25
417	Spontaner Aufbau einer organisch-anorganischen Nukleins□re-Z-DNA-Doppelhelix-Struktur. *Angewandte Chemie*, **2017**, 129, 1161-1165	3.6	4
416	Exploring Self-Assembly and the Self-Organization of Nanoscale Inorganic Polyoxometalate Clusters. *Advances in Inorganic Chemistry*, **2017**, 69, 1-28	2.1	9
415	Encapsulation of a {Cu} cluster containing four [CuO] cubanes within an isopolyoxometalate {W} cluster. *Chemical Communications*, **2017**, 53, 7076-7079	5.8	9
414	Time-programmable drug dosing allows the manipulation, suppression and reversal of antibiotic drug resistance in vitro. *Nature Communications*, **2017**, 8, 15589	17.4	51
413	An autonomous organic reaction search engine for chemical reactivity. *Nature Communications*, **2017**, 8, 15733	17.4	43
412	Tellurite-Squarate Driven Assembly of a New Family of Nanoscale Clusters Based on (Mo O S). *Chemistry - A European Journal*, **2017**, 23, 9683-9689	4.8	5
411	Exploring the Molecular Growth of Two Gigantic Half-Closed Polyoxometalate Clusters {Mo180} and {Mo130Ce6}. *Angewandte Chemie*, **2017**, 129, 9859-9863	3.6	8
410	POMzites: A Family of Zeolitic Polyoxometalate Frameworks from a Minimal Building Block Library. *Journal of the American Chemical Society*, **2017**, 139, 5930-5938	16.4	58

409	Adaptive artificial evolution of droplet protocells in a 3D-printed fluidic chemorobotic platform with configurable environments. *Nature Communications*, **2017**, 8, 1144	17.4	14
408	Molecular based flash cell for low power flash application: Optimization and variability evaluation **2017**,		1
407	Self-Assembly of Molecular Metal Oxide Nanoclusters **2017**, 1-20		1
406	A recursive microfluidic platform to explore the emergence of chemical evolution. *Beilstein Journal of Organic Chemistry*, **2017**, 13, 1702-1709	2.5	4
405	Using earth abundant materials for the catalytic evolution of hydrogen from electron-coupled proton buffers. *Sustainable Energy and Fuels*, **2017**, 1, 1782-1787	5.8	21
404	Design and synthesis of polyoxometalate-framework materials from cluster precursors. *Nature Reviews Materials*, **2017**, 2,	73.3	146
403	Autonomous model protocell division driven by molecular replication. *Nature Communications*, **2017**, 8, 237	17.4	31
402	Exploring structural complexity in the discovery and self-assembly of a family of nanoscale chalcoxides from {SeMo} to {SeMo}. *Chemical Communications*, **2017**, 53, 8585-8587	5.8	2
401	Reaction: A New Genesis for Origins Research?. *CheM*, **2017**, 2, 601-603	16.2	2
400	Human versus Robots in the Discovery and Crystallization of Gigantic Polyoxometalates. *Angewandte Chemie*, **2017**, 129, 10955-10960	3.6	21
399	A probabilistic framework for identifying biosignatures using Pathway Complexity. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2017**, 375,	3	24
398	Human versus Robots in the Discovery and Crystallization of Gigantic Polyoxometalates. *Angewandte Chemie - International Edition*, **2017**, 56, 10815-10820	16.4	80
397	Hybrid amperometric and potentiometrie sensing based on a CMOS ISFET array **2017**,		1
396	Metabolic plasticity in CLL: adaptation to the hypoxic niche. *Leukemia*, **2016**, 30, 65-73	10.7	55
395	R□ktitelbild: Self-Templating and In Situ Assembly of a Cubic Cluster-of-Clusters Architecture Based on a {Mo24Fe12} Inorganic Macrocycle (Angew. Chem. 41/2016). *Angewandte Chemie*, **2016**, 128, 13106-13106	3.6	
394	Self-Templating and In Situ Assembly of a Cubic Cluster-of-Clusters Architecture Based on a {Mo24 Fe12 } Inorganic Macrocycle. *Angewandte Chemie - International Edition*, **2016**, 55, 12703-7	16.4	30
393	Water-Soluble Pentagonal-Prismatic Titanium-Oxo Clusters. *Journal of the American Chemical Society*, **2016**, 138, 11097-100	16.4	112
392	Overcoming the Crystallization Bottleneck: A Family of Gigantic Inorganic {Pdx }(L) (x=84, 72) Palladium Macrocycles Discovered using Solution Techniques. *Angewandte Chemie - International Edition*, **2016**, 55, 12741-5	16.4	20

391	Investigating the Transformations of Polyoxoanions Using Mass Spectrometry and Molecular Dynamics. *Journal of the American Chemical Society*, **2016**, 138, 8765-73	16.4	42
390	ORIGIN OF LIFE. Beyond prebiotic chemistry. *Science*, **2016**, 352, 1174-5	33.3	43
389	An all-inorganic polyoxometalate-polyoxocation chemical garden. *Chemical Communications*, **2016**, 52, 1911-4	5.8	12
388	Exploiting the equilibrium dynamics in the self-assembly of inorganic macrocycles based upon polyoxothiometalate building blocks. *Chemical Communications*, **2016**, 52, 9109-12	5.8	10
387	Towards dial-a-molecule by integrating continuous flow, analytics and self-optimisation. *Chemical Society Reviews*, **2016**, 45, 2032-43	58.5	132
386	Assembly of inorganic [MoSO] panels connected by selenite anions to nanoscale chalcogenide-polyoxometalate clusters. *Chemical Science*, **2016**, 7, 3798-3804	9.4	18
385	Sizing and Discovery of Nanosized Polyoxometalate Clusters by Mass Spectrometry. *Journal of the American Chemical Society*, **2016**, 138, 3824-30	16.4	41
384	Rearrangement of {□P2W15} to {PW6} moieties during the assembly of transition-metal-linked polyoxometalate clusters. *Chemical Communications*, **2016**, 52, 919-21	5.8	18
383	The digital code driven autonomous synthesis of ibuprofen automated in a 3D-printer-based robot. *Beilstein Journal of Organic Chemistry*, **2016**, 12, 2776-2783	2.5	29
382	Hydrogen From Water Electrolysis **2016**, 315-343		9
381	Quantifying the origins of life on a planetary scale. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 8127-32	11.5	45
380	On the fly multi-modal observation of ligand synthesis and complexation of Cu complexes in flow with □benchtop□NMR and mass spectrometry. *Inorganic Chemistry Frontiers*, **2016**, 3, 919-923	6.8	8
379	3D printing of versatile reactionware for chemical synthesis. *Nature Protocols*, **2016**, 11, 920-36	18.8	140
378	Shrink wrapping redox-active crystals of polyoxometalate open frameworks with organic polymers via crystal induced polymerisation. *Chemical Communications*, **2016**, 52, 7794-7	5.8	7
377	Solar-Driven Water Oxidation and Decoupled Hydrogen Production Mediated by an Electron-Coupled-Proton Buffer. *Journal of the American Chemical Society*, **2016**, 138, 6707-10	16.4	64
376	A Portable 3D Printer System for the Diagnosis and Treatment of Multidrug-Resistant Bacteria. *CheM*, **2016**, 1, 494-504	16.2	19
375	Self-Templating and In Situ Assembly of a Cubic Cluster-of-Clusters Architecture Based on a {Mo24Fe12} Inorganic Macrocycle. *Angewandte Chemie*, **2016**, 128, 12895-12899	3.6	1
374	Overcoming the Crystallization Bottleneck: A Family of Gigantic Inorganic {Pdx}L (x=84, 72) Palladium Macrocycles Discovered using Solution Techniques. *Angewandte Chemie*, **2016**, 128, 12933-12937	3.6	5

373	Exploring the solvent mediated assembly and redox activity of a POM-organic hybrid [Na(SO)(PhPO)MoMoO]. *New Journal of Chemistry*, **2016**, 40, 8488-8492	3.6	3
372	From Chemical Gardens to Chemobrionics. *Chemical Reviews*, **2015**, 115, 8652-703	68.1	155
371	Development of a 3D printer using scanning projection stereolithography. *Scientific Reports*, **2015**, 5, 9875	4.9	117
370	Investigating the formation of "molybdenum blues" with gel electrophoresis and mass spectrometry. *Journal of the American Chemical Society*, **2015**, 137, 6524-30	16.4	51
369	Self-assembly of triangular polyoxometalate-organic hybrid macroions in mixed solvents. *Chemical Communications*, **2015**, 51, 8630-3	5.8	20
368	The effect of the spacer of bis(biurea) ligands on the structure of A2 L3 -type (A=anion) phosphate complexes. *Chemistry - A European Journal*, **2015**, 21, 2588-93	4.8	24
367	Synthesis and characterization of a series of [M2(□SiW8O31)2](n-) clusters and mechanistic insight into the reorganization of {□SiW8O31} into {□SiW9O34}. *Inorganic Chemistry*, **2015**, 54, 4151-5	5.1	16
366	Configurable Nanosized Metal Oxide Oligomers via Precise "Click" Coupling Control of Hybrid Polyoxometalates. *Journal of the American Chemical Society*, **2015**, 137, 5662-5	16.4	82
365	Electronically Stabilized Nonplanar Phenalenyl Radical and Its Planar Isomer. *Journal of the American Chemical Society*, **2015**, 137, 14944-51	16.4	32
364	Towards heterotic computing with droplets in a fully automated droplet-maker platform. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2015**, 373,	3	9
363	Formation of oligopeptides in high yield under simple programmable conditions. *Nature Communications*, **2015**, 6, 8385	17.4	110
362	A self optimizing synthetic organic reactor system using real-time in-line NMR spectroscopy. *Chemical Science*, **2015**, 6, 1258-1264	9.4	173
361	Trapping the □isomer of the Polyoxometalate-Based Keggin Cluster with a Tripodal Ligand. *Angewandte Chemie*, **2015**, 127, 15708-15712	3.6	8
360	Trapping the □isomer of the Polyoxometalate-Based Keggin Cluster with a Tripodal Ligand. *Angewandte Chemie - International Edition*, **2015**, 54, 15488-92	16.4	20
359	Assembly of Tungsten-Oxide-Based Pentagonal Motifs in Solution Leads to Nanoscale {W48}, {W56}, and {W92} Polyoxometalate Clusters. *Angewandte Chemie*, **2015**, 127, 14516-14520	3.6	19
358	High-Performance Polyoxometalate-Based Cathode Materials for Rechargeable Lithium-Ion Batteries. *Advanced Materials*, **2015**, 27, 4649-54	24	113
357	Assembly of Tungsten-Oxide-Based Pentagonal Motifs in Solution Leads to Nanoscale {W48}, {W56}, and {W92} Polyoxometalate Clusters. *Angewandte Chemie - International Edition*, **2015**, 54, 14308-12	16.4	34
356	Customizable 3D Printed 'Plug and Play' Millifluidic Devices for Programmable Fluidics. *PLoS ONE*, **2015**, 10, e0141640	3.7	51

355	Following the Reaction of Heteroanions inside a {W18O56} Polyoxometalate Nanocage by NMR Spectroscopy and Mass Spectrometry. *Angewandte Chemie*, **2015**, 127, 8006-8010	3.6	10
354	Following the Reaction of Heteroanions inside a {W18O56} Polyoxometalate Nanocage by NMR Spectroscopy and Mass Spectrometry. *Angewandte Chemie - International Edition*, **2015**, 54, 7895-9	16.4	26
353	Comparison Between Bulk and FDSOI POM Flash Cell: A Multiscale Simulation Study. *IEEE Transactions on Electron Devices*, **2015**, 62, 680-684	2.9	5
352	Towards imaging electron density inside metal-organic framework structures. *Chemical Communications*, **2014**, 50, 2271-4	5.8	7
351	Polyoxometalate clusters integrated into peptide chains and as inorganic amino acids: solution- and solid-phase approaches. *Angewandte Chemie - International Edition*, **2014**, 53, 3336-41	16.4	93
350	Discovery of gigantic molecular nanostructures using a flow reaction array as a search engine. *Nature Communications*, **2014**, 5, 3715	17.4	25
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