

Grigore A Timco

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153
papers

6,026
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159
ext. papers

6,436
ext. citations

8.5
avg, IF

5.19
L-index

#	Paper	IF	Citations
153	Will spin-relaxation times in molecular magnets permit quantum information processing?. <i>Physical Review Letters</i> , 2007 , 98, 057201	7.4	601
152	Engineering the coupling between molecular spin qubits by coordination chemistry. <i>Nature Nanotechnology</i> , 2009 , 4, 173-8	28.7	341
151	Hybrid organic-inorganic rotaxanes and molecular shuttles. <i>Nature</i> , 2009 , 458, 314-8	50.4	241
150	Linking heterometallic rings for quantum information processing and amusement. <i>Chemical Society Reviews</i> , 2011 , 40, 3067-75	58.5	180
149	Magnetic anisotropy of the antiferromagnetic ring [Cr ₈ F ₈ Piv ₁₆]. <i>Chemistry - A European Journal</i> , 2002 , 8, 277-85	4.8	180
148	Synthesis and characterization of heterometallic {Cr ₇ M} wheels. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 101-5	16.4	179
147	Synthetic and structural studies of cobalt-pivalate complexes. <i>Chemistry - A European Journal</i> , 2003 , 9, 5142-61	4.8	166
146	A modular design of molecular qubits to implement universal quantum gates. <i>Nature Communications</i> , 2016 , 7, 11377	17.4	144
145	Studies of chromium cages and wheels. <i>Coordination Chemistry Reviews</i> , 2005 , 249, 2577-2590	23.2	131
144	A ring cycle: studies of heterometallic wheels. <i>Chemical Communications</i> , 2007 , 1789-97	5.8	122
143	The magnetic Möbius strip: synthesis, structure, and magnetic studies of odd-numbered antiferromagnetically coupled wheels. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 5196-200	16.4	112
142	A classification of spin frustration in molecular magnets from a physical study of large odd-numbered-metal, odd electron rings. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 19113-8	11.5	102
141	Synthesis and characterization of mixed-valent manganese phosphonate cage complexes. <i>Chemistry - A European Journal</i> , 2006 , 12, 8777-85	4.8	102
140	Nickel pivalate complexes: structural variations and magnetic susceptibility and inelastic neutron scattering studies. <i>Dalton Transactions</i> , 2004 , 2758-66	4.3	98
139	Spin dynamics of molecular nanomagnets unravelled at atomic scale by four-dimensional inelastic neutron scattering. <i>Nature Physics</i> , 2012 , 8, 906-911	16.2	87
138	Heterometallic Rings: Their Physics and use as Supramolecular Building Blocks. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14244-69	16.4	85
137	Homo- and heterometallic carboxylate cage complexes as precatalysts for olefin polymerization: activity enhancement through inert metals. <i>Journal of Catalysis</i> , 2004 , 222, 260-267	7.3	84

136	Engineering coherent interactions in molecular nanomagnet dimers. <i>Npj Quantum Information</i> , 2015 , 1,	8.6	79
135	Linking rings through diamines and clusters: exploring synthetic methods for making magnetic quantum gates. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6496-500	16.4	77
134	Making hybrid [n]-rotaxanes as supramolecular arrays of molecular electron spin qubits. <i>Nature Communications</i> , 2016 , 7, 10240	17.4	72
133	Multi-Temperature Crystallographic Studies of Mixed-Valence Polynuclear Complexes; Valence Trapping Process in the Trinuclear Oxo-Bridged Iron Compound, [Fe ₃ O(O ₂ CC(CH ₃) ₃) ₆ (C ₅ H ₅ N) ₃]. <i>Journal of the American Chemical Society</i> , 2000 , 122, 11370-11379	16.4	71
132	EPR spectroscopy of a family of Cr(III) 7M(II) (M = Cd, Zn, Mn, Ni) "wheels": studies of isostructural compounds with different spin ground states. <i>Chemistry - A European Journal</i> , 2009 , 15, 3152-67	4.8	70
131	Horseshoes, rings, and distorted rings: studies of cyclic chromium-fluoride cages. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 5978-81	16.4	66
130	Physical studies of heterometallic rings: an ideal system for studying magnetically-coupled systems. <i>Chemical Society Reviews</i> , 2013 , 42, 1796-806	58.5	65
129	Molecular routes for spin cluster qubits. <i>Dalton Transactions</i> , 2006 , 2810-7	4.3	63
128	Influencing the nuclearity and constitution of heterometallic rings via templates. <i>Chemical Communications</i> , 2005 , 3649-51	5.8	61
127	Heterometallic rings made from chromium stick together easily. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 9681-4	16.4	60
126	A Systematic Exploration of NickelPyrazolinato Chemistry with Alkali Metals: New Cages From Serendipitous Assembly. <i>Chemistry - A European Journal</i> , 2003 , 9, 3024-3032	4.8	59
125	A ring of rings and other multicomponent assemblies of cages. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 9932-5	16.4	58
124	Importance of the anisotropic exchange interaction for the magnetic anisotropy of polymetallic systems. <i>Journal of the American Chemical Society</i> , 2007 , 129, 760-1	16.4	57
123	Studies of an Fe ₉ tridiminished icosahedron. <i>Chemistry - A European Journal</i> , 2006 , 12, 8961-8	4.8	56
122	Host-guest chemistry of the chromium-wheel complex [Cr ₈ F ₈ (tBuCO ₂) ₁₆]: prediction of inclusion capabilities by using an electrostatic potential distribution determined by modeling synchrotron X-ray structure factors at 16 K. <i>Chemistry - A European Journal</i> , 2002 , 8, 2775-86	4.8	55
121	A family of heterometallic wheels containing potentially fourteen hundred siblings. <i>Chemical Communications</i> , 2005 , 1125-7	5.8	55
120	Chromium chains as polydentate fluoride ligands for lanthanides. <i>Chemical Communications</i> , 2011 , 47, 6251-3	5.8	53
119	Synthesis, structure, and dynamic properties of hybrid organic-inorganic rotaxanes. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15435-44	16.4	53

118	Octa-, deca-, trideca-, and tetradecanuclear heterometallic cyclic chromium-copper cages. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 924-7	16.4	53
117	Synthesis, structure and magnetic properties of hydroxyquinaldine-bridged cobalt and nickel cubanes. <i>Dalton Transactions</i> , 2003 , 4466-4471	4.3	52
116	Molecular nanomagnets with switchable coupling for quantum simulation. <i>Scientific Reports</i> , 2014 , 4, 7423	4.9	50
115	A family of ferro- and antiferromagnetically coupled decametallc chromium(III) wheels. <i>Chemistry - A European Journal</i> , 2006 , 12, 1385-96	4.8	50
114	Zinc(II) carboxylates with imidazole and 2-methylimidazole: unprecedented cyclic dimer and polynuclear coordination polymers based on bridging phthalate ions. <i>Inorganica Chimica Acta</i> , 2003 , 344, 109-116	2.7	50
113	A One-Pot Synthesis of Monodispersed Iron Cobalt Oxide and Iron Manganese Oxide Nanoparticles from Bimetallic Pivalate Clusters. <i>Chemistry of Materials</i> , 2014 , 26, 999-1013	9.6	45
112	Synthesis and X-ray diffraction study of Zn(II) complexes with o-phthalic acid and aromatic amines. <i>Polyhedron</i> , 2001 , 20, 831-837	2.7	45
111	Electric Field Control of Spins in Molecular Magnets. <i>Physical Review Letters</i> , 2019 , 122, 037202	7.4	43
110	Synthesis and Characterization of Heterometallic {Cr ₇ M} Wheels. <i>Angewandte Chemie</i> , 2003 , 115, 105-109	9.6	42
109	Coherent electron spin manipulation in a dilute oriented ensemble of molecular nanomagnets: pulsed EPR on doped single crystals. <i>Chemical Communications</i> , 2014 , 50, 91-3	5.8	41
108	Controlled Synthesis of Nanoscopic Metal Cages. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7644-7	16.4	38
107	Self-assembled monolayer of Cr ₇ Ni molecular nanomagnets by sublimation. <i>ACS Nano</i> , 2011 , 5, 7090-9	16.7	37
106	Templating open- and closed-chain structures around metal complexes of macrocycles. <i>Angewandte Chemie - International Edition</i> , 2004 , 43, 6132-5	16.4	35
105	Experimental and theoretical electron density distribution and magnetic properties of the butterfly-like complex [Fe(4)O(2)(O(2)CCMe(3))(8)(NC(5)H(4)Me)(2)].2CH(3)CN. <i>Inorganic Chemistry</i> , 2003 , 42, 7593-601	5.1	35
104	Mixed-terminal-ligand oxo-centered carboxylate-bridged trinuclear complexes: gas phase generation by means of electrospray ionization FT-ICR MS, condensed phase synthesis, and X-ray structure of K+[Cr ₃ O(C ₆ H ₅ COO) ₆ (F) ₂ (H ₂ O)] ₂ (CH ₃) ₂ CO. <i>Inorganica Chimica Acta</i> , 2001 , 319, 23-42	2.7	34
103	Rings and threads as linkers in metal-organic frameworks and poly-rotaxanes. <i>Chemical Communications</i> , 2013 , 49, 7195-7	5.8	33
102	Studies of finite molecular chains: synthesis, structural, magnetic and inelastic neutron scattering studies of hexa- and heptanuclear chromium horseshoes. <i>Chemistry - A European Journal</i> , 2008 , 14, 5144-58	4.8	33
101	The Magnetic Möbius Strip: Synthesis, Structure, and Magnetic Studies of Odd-Numbered Antiferromagnetically Coupled Wheels. <i>Angewandte Chemie</i> , 2004 , 116, 5308-5312	3.6	33

100	Isolated heterometallic Cr7Ni rings grafted on Au(111) surface. <i>Inorganic Chemistry</i> , 2007 , 46, 4937-43	5.1	32
99	g-Engineering in Hybrid Rotaxanes To Create AB and AB2 Electron Spin Systems: EPR Spectroscopic Studies of Weak Interactions between Dissimilar Electron Spin Qubits. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 10858-61	16.4	31
98	A spectroscopic investigation of magnetic exchange between highly anisotropic spin centers. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 4007-11	16.4	31
97	High-Temperature Reactions of Metal Triangles: The Influence of Counterion, Ligand, and Metal on the Structure Observed. <i>Journal of Solid State Chemistry</i> , 2001 , 159, 321-327	3.3	31
96	Deposition of Functionalized Cr7Ni Molecular Rings on Graphite from the Liquid Phase. <i>Advanced Functional Materials</i> , 2010 , 20, 1552-1560	15.6	30
95	Synthesis and structural characterisation of unprecedented dinuclear zinc(II) complex with H-bonded bridging phthalate ions. <i>Inorganic Chemistry Communication</i> , 2003 , 6, 685-689	3.1	30
94	On the possibility of magneto-structural correlations: detailed studies of dinickel carboxylate complexes. <i>Inorganic Chemistry</i> , 2014 , 53, 8464-72	5.1	27
93	Chemical control of spin propagation between heterometallic rings. <i>Chemistry - A European Journal</i> , 2011 , 17, 14020-30	4.8	26
92	The acid test: the chemistry of carboxylic acid functionalised {Cr7Ni} rings. <i>Chemical Science</i> , 2014 , 5, 235-239	9.4	25
91	Synthesis of monodispersed magnetite nanoparticles from iron pivalate clusters. <i>Dalton Transactions</i> , 2013 , 42, 196-206	4.3	25
90	Magnetic Anisotropy of Cr7Ni Spin Clusters on Surfaces. <i>Advanced Functional Materials</i> , 2012 , 22, 3706-3718	11.8	25
89	Heterometallische Ringe: physikalische Eigenschaften und Verwendung als supramolekulare Bausteine. <i>Angewandte Chemie</i> , 2015 , 127, 14450-14477	3.6	24
88	Plasma-Etched Pattern Transfer of Sub-10 nm Structures Using a Metal-Organic Resist and Helium Ion Beam Lithography. <i>Nano Letters</i> , 2019 , 19, 6043-6048	11.5	23
87	A Ring of Rings and Other Multicomponent Assemblies of Cages. <i>Angewandte Chemie</i> , 2013 , 125, 10116-10119	11.9	23
86	Grafting molecular Cr7Ni rings on a gold surface. <i>Dalton Transactions</i> , 2010 , 39, 4928-36	4.3	23
85	Quantum spin coherence in halogen-modified Cr7Ni molecular nanomagnets. <i>Physical Review B</i> , 2014 , 90,	3.3	22
84	Chemistry and supramolecular chemistry of chromium horseshoes. <i>Chemical Communications</i> , 2008 , 1560-8	9.8	21
83	Measuring Spin-Spin Interactions between Heterospins in a Hybrid [2]Rotaxane. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3876-3879	16.4	20

82	A detailed study of the magnetism of chiral {Cr ₁₀ } rings: an investigation into parametrization and transferability of parameters. <i>Journal of the American Chemical Society</i> , 2014 , 136, 9763-72	16.4	20
81	[CrF(O ₂ C(t) Bu) ₂] ₉ : Synthesis and Characterization of a Regular Homometallic Ring with an Odd Number of Metal Centers and Electrons. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8856-9	16.4	20
80	Studies of a Large Odd-Numbered Odd-Electron Metal Ring: Inelastic Neutron Scattering and Muon Spin Relaxation Spectroscopy of Cr ₈ Mn. <i>Chemistry - A European Journal</i> , 2016 , 22, 1779-88	4.8	20
79	A direct synthesis of water soluble monodisperse cobalt and manganese ferrite nanoparticles from iron based pivalate clusters by the hot injection thermolysis method. <i>Materials Science in Semiconductor Processing</i> , 2014 , 27, 303-308	4.3	19
78	Low temperature magnetic properties and spin dynamics in single crystals of Cr ₈ Zn antiferromagnetic molecular rings. <i>Journal of Chemical Physics</i> , 2015 , 143, 244321	3.9	19
77	Coherent Spin Dynamics in Molecular Cr ₈ Zn Wheels. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 5062-6.4	6.4	19
76	Functional Chromium Wheel-Based Hybrid Organic/Inorganic Materials for Dielectric Applications. <i>Advanced Functional Materials</i> , 2009 , 19, 3226-3236	15.6	19
75	Studies of a molecular hourglass: synthesis and magnetic characterisation of a cyclic dodecanuclear {Cr ₁₀ Cu ₂ } complex. <i>Chemistry - A European Journal</i> , 2006 , 12, 8267-75	4.8	19
74	Multi-temperature X-ray diffraction, Mössbauer spectroscopy and magnetic susceptibility studies of a solvated mixed-valence trinuclear iron formate, [Fe ₃ O(HCO ₂) ₆ (NC ₅ H ₄ CH ₃) ₃] _{1.3} (NC ₅ H ₄ CH ₃). <i>Dalton Transactions RSC</i> , 2002 , 2981		19
73	Controlling magnetic communication through aromatic bridges by variation in torsion angle. <i>Dalton Transactions</i> , 2012 , 41, 13626-31	4.3	18
72	Varying spin state composition by the choice of capping ligand in a family of molecular chains: detailed analysis of magnetic properties of chromium(III) horseshoes. <i>Dalton Transactions</i> , 2011 , 40, 2725-34	4.34	18
71	Topological effects on the magnetic properties of closed and open ring-shaped Cr-based antiferromagnetic nanomagnets. <i>Physical Review B</i> , 2008 , 78,	3.3	18
70	Linking Rings through Diamines and Clusters: Exploring Synthetic Methods for Making Magnetic Quantum Gates. <i>Angewandte Chemie</i> , 2005 , 117, 6654-6658	3.6	18
69	Linkage isomerism and spin frustration in heterometallic rings: synthesis, structural characterization, and magnetic and EPR spectroscopic studies of Cr(7)Ni, Cr(6)Ni(2), and Cr(7)Ni(2) rings templated about imidazolium cations. <i>Chemistry - A European Journal</i> , 2009 , 15, 13150-60	4.8	17
68	Proton NMR study of Cr-Co heterometallic wheel complexes. <i>Inorganic Chemistry</i> , 2009 , 48, 9811-8	5.1	17
67	An Extensive Family of Heterometallic Titanium(IV)-Metal(III) Rings with Structure Control through Templates. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 13629-13632	16.4	16
66	Caesium ion sequestration by a fluoro-metallocrown [16]-MC-8. <i>Chemical Communications</i> , 2010 , 46, 6258-60	6.50	15
65	Binding CO by a Cr Metallocrown. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 5527-5530	16.4	14

64	A hybrid organic-inorganic molecular daisy chain. <i>Chemical Communications</i> , 2015 , 51, 11126-9	5.8	14
63	Microstrip Resonators and Broadband Lines for X-band EPR Spectroscopy of Molecular Nanomagnets. <i>Applied Magnetic Resonance</i> , 2015 , 46, 749-756	0.8	14
62	Electronic Structure of a Mixed-Metal Fluoride-Centered Triangle Complex: A Potential Qubit Component. <i>Inorganic Chemistry</i> , 2015 , 54, 12019-26	5.1	13
61	Radio-frequency spectroscopy of the low-energy spectrum of the magnetic molecule Cr ₁₂ Cu ₂ . <i>Physical Review B</i> , 2009 , 80,	3.3	13
60	Horseshoes, Rings, and Distorted Rings: Studies of Cyclic Chromium-Fluoride Cages. <i>Angewandte Chemie</i> , 2003 , 115, 6160-6163	3.6	13
59	Hybrid Organic-Inorganic Rotaxanes, Including a Hetero-Hybrid [3]Rotaxane Featuring Two Distinct Heterometallic Rings and a Molecular Shuttle. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 10915-10922	16.4	12
58	Hot injection thermolysis of heterometallic pivalate clusters for the synthesis of monodisperse zinc and nickel ferrite nanoparticles. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 6781-6789	7.1	12
57	Studies of hybrid organic-inorganic [2] and [3]rotaxanes bound to Au surfaces. <i>Chemical Communications</i> , 2013 , 49, 3404-6	5.8	12
56	Pressure versus temperature effects on intramolecular electron transfer in mixed-valence complexes. <i>Chemistry - A European Journal</i> , 2013 , 19, 195-205	4.8	12
55	Oxo-centered carboxylate-bridged trinuclear complexes deposited on Au(111) by a mass-selective electropray. <i>New Journal of Chemistry</i> , 2011 , 35, 1683	3.6	12
54	Modification of the magnetic properties of a heterometallic wheel by inclusion of a Jahn-Teller distorted Cu(II) ion. <i>Dalton Transactions</i> , 2011 , 40, 8533-9	4.3	12
53	Anisotropy of Co transferred to the CrCo polymetallic cluster strong exchange interactions. <i>Chemical Science</i> , 2018 , 9, 3555-3562	9.4	11
52	A [13]rotaxane assembled via a palladium molecular capsule. <i>Nature Communications</i> , 2019 , 10, 3720	17.4	11
51	High-field magnetic properties of the magnetic molecule {Cr ₁₀ Cu ₂ }. <i>Physical Review B</i> , 2009 , 79,	3.3	11
50	Single-crystal parallel-mode EPR spectroscopy of an S=6 ground-state transition-metal cluster. <i>Physical Review B</i> , 2004 , 69,	3.3	11
49	g-Engineering in Hybrid Rotaxanes To Create AB and AB ₂ Electron Spin Systems: EPR Spectroscopic Studies of Weak Interactions between Dissimilar Electron Spin Qubits. <i>Angewandte Chemie</i> , 2015 , 127, 11008-11011	3.6	10
48	Inelastic neutron scattering studies on the odd-membered antiferromagnetic wheel Cr ₈ Ni. <i>Physical Review B</i> , 2012 , 86,	3.3	10
47	A Clock Transition in the Cr ₇ Mn Molecular Nanomagnet. <i>Magnetochemistry</i> , 2019 , 5, 4	3.1	9

46	Effects of the Dzyaloshinskii-Moriya interaction in Cr ³ triangular spin clusters detected by specific heat and multi-frequency electron spin resonance. <i>Dalton Transactions</i> , 2015 , 44, 14027-33	4.3	9
45	Experimental charge density in an oxidized trinuclear iron complex using 15 K synchrotron and 100 K conventional single-crystal X-ray diffraction. <i>Dalton Transactions</i> , 2009 , 664-71	4.3	9
44	Templating Open- and Closed-Chain Structures around Metal Complexes of Macrocycles. <i>Angewandte Chemie</i> , 2004 , 116, 6258-6261	3.6	9
43	[CrF(O ₂ CtBu) ₂] ₉ : Synthesis and Characterization of a Regular Homometallic Ring with an Odd Number of Metal Centers and Electrons. <i>Angewandte Chemie</i> , 2016 , 128, 9002-9005	3.6	9
42	Synthesis and reactions of N-heterocycle functionalised variants of heterometallic {Cr ₇ Ni} rings. <i>Dalton Transactions</i> , 2016 , 45, 1638-47	4.3	8
41	AF molecular rings for quantum computation. <i>Polyhedron</i> , 2005 , 24, 2562-2567	2.7	8
40	Measuring Spin-Spin Interactions between Heterospins in a Hybrid [2]Rotaxane. <i>Angewandte Chemie</i> , 2017 , 129, 3934-3937	3.6	7
39	Metal distribution and disorder in the crystal structure of [NH ₂ Et ₂][Cr ₇ MF ₈ ((t)BuCO ₂) ₁₆] wheel molecules for M = Mn, Fe, Co, Ni, Cu, Zn and Cd. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014 , 70, 932-41	1.8	7
38	Conformational Flexibility of Hybrid [3]- and [4]-Rotaxanes. <i>Journal of the American Chemical Society</i> , 2020 , 142, 15941-15949	16.4	7
37	Use of Supramolecular Assemblies as Lithographic Resists. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 6749-6752	16.4	6
36	Heterodimers of heterometallic rings. <i>Dalton Transactions</i> , 2016 , 45, 16610-16615	4.3	6
35	Close Encounters of the Weak Kind: Investigations of Electron-Electron Interactions between Dissimilar Spins in Hybrid Rotaxanes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 14633-14642	16.4	6
34	Structural and magnetic investigations of the mixed-valence Fe(II,III) two-dimensional layer complex, [Fe ₂ (II)Fe ₂ (III)(HCOO) ₁₀ (C ₆ H ₇ N) ₆] _n . <i>ChemPhysChem</i> , 2004 , 5, 1755-61	3.2	6
33	Radiolytic splitting of water molecules in the presence of some supramolecular compounds. <i>Journal of the Serbian Chemical Society</i> , 2003 , 68, 593-598	0.9	6
32	The synthesis of a monodisperse quaternary ferrite (FeCoCrO) from the hot injection thermolysis of the single source precursor [CrCoFeO(OCBu)(HOCBu)]. <i>Dalton Transactions</i> , 2018 , 47, 376-381	4.3	6
31	Binding of halogens by a Cr metallocrown. <i>Dalton Transactions</i> , 2018 , 47, 13771-13775	4.3	6
30	Binary behaviour of an oxidation-responsive MRI nano contrast agent. <i>Chemical Communications</i> , 2015 , 51, 1074-6	5.8	5
29	An Extensive Family of Heterometallic Titanium(IV)Metal(III) Rings with Structure Control through Templates. <i>Angewandte Chemie</i> , 2017 , 129, 13817-13820	3.6	5

28	Tetra-kis(μ-pivalato- μ :O')bis-[(2-methyl-pyridine- μ)]iron(II)](Fe-Fe). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008 , 64, m497		5
27	Nanoscale Patterning of Zinc Oxide from Zinc Acetate Using Electron Beam Lithography for the Preparation of Hard Lithographic Masks. <i>ACS Applied Nano Materials</i> , 2021 , 4, 406-413	5.6	5
26	Binding CO ₂ by a Cr ₈ Metallocrown. <i>Angewandte Chemie</i> , 2017 , 129, 5619-5622	3.6	4
25	How to probe the spin contribution to momentum relaxation in topological insulators. <i>Nature Communications</i> , 2018 , 9, 56	17.4	4
24	An extended framework of cages formed of pre-synthesised and functionalised heterometallic cages. <i>Chemical Communications</i> , 2015 , 51, 3533-6	5.8	4
23	Targeting molecular quantum memory with embedded error correction. <i>Chemical Science</i> , 2021 , 12, 9104-9113	4.1	4
22	Use of Supramolecular Assemblies as Lithographic Resists. <i>Angewandte Chemie</i> , 2017 , 129, 6853-6856	3.6	3
21	Formation of an interlocked double-chain from an organic-inorganic [2]rotaxane. <i>Chemical Communications</i> , 2019 , 55, 2960-2963	5.8	3
20	Design and implementation of the next generation electron beam resists for the production of EUVL photomasks 2018 ,		3
19	Heterometallic 3d-4f Complexes as Air-Stable Molecular Precursors in Low Temperature Syntheses of Stoichiometric Rare-Earth Orthoferrite Powders. <i>Inorganic Chemistry</i> , 2020 , 59, 15796-15806	5.1	3
18	Tuning the Performance of Negative Tone Electron Beam Resists for the Next Generation Lithography. <i>Advanced Functional Materials</i> , 2020 , 202710	15.6	3
17	High temperature spin dynamics in linear magnetic chains, molecular rings, and segments by nuclear magnetic resonance. <i>Journal of Applied Physics</i> , 2015 , 117, 17B308	2.5	2
16	Chromium chains as polydentate fluoride ligands for actinides and group IV metals. <i>Dalton Transactions</i> , 2018 , 47, 6361-6369	4.3	2
15	Reversible uptake of sulfur-containing gases by single crystals of a Cr metallocrown. <i>Dalton Transactions</i> , 2019 , 48, 13184-13189	4.3	2
14	Comparison of spin dynamics and magnetic properties in antiferromagnetic closed and open molecular Cr-based rings. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 506001	1.8	2
13	Diethanolaminiumcyclo-octa- μ -fluoro-hexadeca- μ -trimethylacetato- β 2O:O?-heptachromium(III)nickel(II) ethyl acetate 0.5-solvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005 , 61, m1525-m1527		2
12	Gold(i) bridged dimeric and trimeric heterometallic {CrNi}-based qubit systems and their characterization. <i>Dalton Transactions</i> , 2021 , 50, 4390-4395	4.3	2
11	Hybrid Organic-Inorganic Rotaxanes, Including a Hetero-Hybrid [3]Rotaxane Featuring Two Distinct Heterometallic Rings and a Molecular Shuttle. <i>Angewandte Chemie</i> , 2018 , 130, 11085-11088	3.6	2

10	Large Zero-Field Splittings of the Ground Spin State Arising from Antisymmetric Exchange Effects in Heterometallic Triangles. <i>Angewandte Chemie</i> , 2014 , 126, 5414-5417	3.6	1
9	A Spectroscopic Investigation of Magnetic Exchange Between Highly Anisotropic Spin Centers. <i>Angewandte Chemie</i> , 2011 , 123, 4093-4097	3.6	1
8	Synthesis and Structural, Magnetic and EPR Characterization of Discrete Finite Antiferromagnetic Chains. <i>Applied Magnetic Resonance</i> , 2010 , 37, 685-692	0.8	1
7	The Synthesis and Characterisation of a Molecular Sea-Serpent: Studies of a {Cr ₂₄ Cu ₇ } Chain. <i>Angewandte Chemie</i> , 2021 , 133, 9575-9578	3.6	1
6	The Synthesis and Characterisation of a Molecular Sea-Serpent: Studies of a {Cr Cu } Chain. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 9489-9492	16.4	1
5	Single Ion Anisotropy of Cr ^{III} and Fe ^{III} in a Series of {Ti ₇ M} Rings. <i>Applied Magnetic Resonance</i> , 2020 , 51, 1251-1265	0.8	0
4	Rücktitelbild: Large Zero-Field Splittings of the Ground Spin State Arising from Antisymmetric Exchange Effects in Heterometallic Triangles (Angew. Chem. 21/2014). <i>Angewandte Chemie</i> , 2014 , 126, 5578-5578	3.6	
3	Cover Picture: Linking Rings through Diamines and Clusters: Exploring Synthetic Methods for Making Magnetic Quantum Gates (Angew. Chem. Int. Ed. 40/2005). <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 6427-6427	16.4	
2	Titelbild: Linking Rings through Diamines and Clusters: Exploring Synthetic Methods for Making Magnetic Quantum Gates (Angew. Chem. 40/2005). <i>Angewandte Chemie</i> , 2005 , 117, 6585-6585	3.6	
1	Single Isomer Heterometallic {Cr _M } Rings Templated by Tetramethylammonium. <i>Inorganic Chemistry</i> , 2021 , 60, 15675-15685	5.1	