

# Vadim G Kessler

## List of Publications by Year in descending order

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254  
papers

6,262  
citations

61857

43  
h-index

128067

60  
g-index

272  
all docs

272  
docs citations

272  
times ranked

6826  
citing authors

#	ARTICLE	IF	CITATIONS
1	New insight in the role of modifying ligands in the sol-gel processing of metal alkoxide precursors: A possibility to approach new classes of materials. <i>Journal of Sol-Gel Science and Technology</i> , 2006, 40, 163-179.	1.1	174
2	Ordered Network of Interconnected SnO <sub>2</sub> Nanoparticles for Excellent Lithium-Ion Storage. <i>Advanced Energy Materials</i> , 2015, 5, 1401289.	10.2	147
3	Maghemite Nanoparticles Acts as Nanozymes, Improving Growth and Abiotic Stress Tolerance in <i>Brassica napus</i> . <i>Nanoscale Research Letters</i> , 2017, 12, 631.	3.1	128
4	Molecular structure design and synthetic approaches to the heterometallic alkoxide complexes (soft) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf Communications</i> , 2003, , 1213-1222.	2.2	121
5	The first depleted heterojunction TiO <sub>2</sub> -MOF-based solar cell. <i>Chemical Communications</i> , 2014, 50, 10210-10213.	2.2	112
6	Role of the Ancillary Ligand <i>N,N</i> -Dimethylaminoethanol in the Sensitization of Eu <sup>III</sup> and Tb <sup>III</sup> Luminescence in Dimeric <i>Î</i> <sup>2</sup> -Diketonates. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3614-3626.	1.1	102
7	Cellulose nanofiber-titania nanocomposites as potential drug delivery systems for dermal applications. <i>Journal of Materials Chemistry B</i> , 2015, 3, 1688-1698.	2.9	94
8	Structure of the hydrated, hydrolysed and solvated zirconium(IV) and hafnium(IV) ions in water and aprotic oxygen donor solvents. A crystallographic, EXAFS spectroscopic and large angle X-ray scattering study. <i>Dalton Transactions</i> , 2004, , 2142-2151.	1.6	90
9	Molybdenum and tungsten (VI) bimetallic alkoxides. Decomposition accompanied by dialkylether elimination. <i>Polyhedron</i> , 1991, 10, 2617-2628.	1.0	84
10	Nano titania aided clustering and adhesion of beneficial bacteria to plant roots to enhance crop growth and stress management. <i>Scientific Reports</i> , 2015, 5, 10146.	1.6	84
11	Precursor directed synthesis - molecular mechanisms in the Soft Chemistry approaches and their use for template-free synthesis of metal, metal oxide and metal chalcogenide nanoparticles and nanostructures. <i>Nanoscale</i> , 2014, 6, 6229-6244.	2.8	83
12	Dispersion of TiO <sub>2</sub> nanoparticles improves burn wound healing and tissue regeneration through specific interaction with blood serum proteins. <i>Scientific Reports</i> , 2017, 7, 15448.	1.6	75
13	Cytoprotective Encapsulation of Individual Jurkat T Cells within Durable TiO <sub>2</sub> Shells for T-Cell Therapy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10702-10706.	7.2	74
14	Solution-Engineered Palladium Nanoparticles: Model for Health Effect Studies of Automotive Particulate Pollution. <i>ACS Nano</i> , 2011, 5, 5312-5324.	7.3	73
15	The sol-gel synthesis of cotton/TiO <sub>2</sub> composites and their antibacterial properties. <i>Surface and Coatings Technology</i> , 2014, 253, 171-179.	2.2	70
16	Chemically Triggered Bidelivery Using Metal-Organic Sol-Gel Synthesis. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8506-8509.	7.2	67
17	The chemistry behind the sol-gel synthesis of complex oxide nanoparticles for bio-imaging applications. <i>Journal of Sol-Gel Science and Technology</i> , 2009, 51, 264-271.	1.1	66
18	Nanoscale insights into doping behavior, particle size and surface effects in trivalent metal doped SnO <sub>2</sub> . <i>Scientific Reports</i> , 2017, 7, 9598.	1.6	64

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19	Pushing the theoretical capacity limits of iron oxide anodes: capacity rise of $\text{Fe}_2\text{O}_3$ nanoparticles in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18107-18115.	5.2	61
20	Microporous Zirconia-Titania Composite Membranes Derived from Diethanolamine-Modified Precursors. <i>Advanced Materials</i> , 2006, 18, 2165-2168.	11.1	59
21	Precursor and Solvent Effects in the Nonhydrolytic Synthesis of Complex Oxide Nanoparticles for Bioimaging Applications by the Ether Elimination (Bradley) Reaction. <i>Chemistry - A European Journal</i> , 2009, 15, 6820-6826.	1.7	59
22	Biomimetic Synthesis of Hierarchically Porous Nanostructured Metal Oxide Microparticles Potential Scaffolds for Drug Delivery and Catalysis. <i>Langmuir</i> , 2010, 26, 9809-9817.	1.6	58
23	Design and synthesis of multifunctional thiacalixarenes and related metal derivatives for the preparation of sol-gel hybrid materials with non-linear optical properties. <i>Dalton Transactions</i> , 2003, , 2085-2092.	1.6	57
24	Solution equilibrium behind the room-temperature synthesis of nanocrystalline titanium dioxide. <i>Nanoscale</i> , 2013, 5, 3330.	2.8	56
25	Interaction of some divalent metal acetylacetonates with Al, Ti, Nb and Ta isopropoxides. Factors influencing the formation and stability of heterometallic alkoxide complexes Electronic supplementary information (ESI) available: synthesis details for $5$ ; microanalysis data for $1$ ; tables of selected bond lengths and angles for $1$ and $7$ ; variable temperature $^1\text{H}$ NMR spectra for $7$ and $8$ ; UV-Vis spectrum of $6$ in toluene after various times. See <a href="http://www.rsc.org/suppdata/doi/10.1039/C3DT00000A">http://www.rsc.org/suppdata/doi/10.1039/C3DT00000A</a> .	1.6	54
26	Stabilization of Metastable Face-Centered Cubic Cobalt and the Tetragonal Phase of Zirconia by a Carbon Shell: Reaction under Autogenic Pressure at Elevated Temperature of $\text{CoZr}_2(\text{acac})_2(\text{OiPr})_8$ . <i>Chemistry of Materials</i> , 2004, 16, 1793-1798.	3.2	54
27	Influence of heteroligands on the composition, structure and properties of homo- and heterometallic zirconium alkoxides. Decisive role of thermodynamic factors in their self-assembly. <i>Journal of Materials Chemistry</i> , 2004, 14, 3177.	6.7	54
28	Simultaneous Removal of Acetaminophen, Diclofenac, and Cd(II) by <i>Trametes versicolor</i> Laccase Immobilized on $\text{Fe}_3\text{O}_4/\text{SiO}_2$ -DTPA Hybrid Nanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9979-9989.	3.2	54
29	Antibacterial and photochemical properties of cellulose nanofiber-titania nanocomposites loaded with two different types of antibiotic medicines. <i>Journal of Materials Chemistry B</i> , 2015, 3, 7125-7134.	2.9	53
30	Hydrolysis of molybdenum and tungsten alkoxides: sols, powders and films. <i>Journal of Non-Crystalline Solids</i> , 1990, 124, 155-166.	1.5	52
31	Hybrid Drug Delivery Patches Based on Spherical Cellulose Nanocrystals and Colloid Titania Synthesis and Antibacterial Properties. <i>Nanomaterials</i> , 2018, 8, 228.	1.9	52
32	Synthesis, crystal and molecular structure of calcium oxo ethoxide, $[\text{Ca}_6(\mu_4\text{O})_2(\mu_3\text{OEt})_4(\text{OEt})_4] \cdot 14\text{EtOH}$ . <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 21-23.	2.0	50
33	Preparation of porous cobalt and nickel oxides from corresponding alkoxides using a sonochemical technique and its application as a catalyst in the oxidation of hydrocarbons. <i>Ultrasonics Sonochemistry</i> , 2003, 10, 1-9.	3.8	49
34	The Effect of a Magnetic Field on a RAPET (Reaction under Autogenic Pressure at Elevated Temperature) of $\text{MoO}(\text{OMe})_4$ : Fabrication of $\text{MoO}_2$ Nanoparticles Coated with Carbon or Separated $\text{MoO}_2$ and Carbon Particles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6322-6327.	1.2	49
35	Mesoporous Nanocrystalline Mixed Metal Oxides from Heterometallic Alkoxide Precursors: Cobalt-Nickel Oxide Spinels for Propane Oxidation. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 4983-4988.	1.0	49
36	DTPA-Functionalized Silica Nano- and Microparticles for Adsorption and Chromatographic Separation of Rare Earth Elements. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6889-6900.	3.2	49

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37	Single-source Precursors for BaTiO <sub>3</sub> : Synthesis and Characterization of .beta.-Diketonato Alkoxides and Molecular Structure of Ba <sub>2</sub> Ti <sub>2</sub> (thd) <sub>4</sub> (.mu. <sub>3</sub> -OEt) <sub>2</sub> (.mu.-OEt) <sub>4</sub> (OEt) <sub>2</sub> (EtOH) <sub>2</sub> . <i>Chemistry of Materials</i> , 1994, 6, 2336-2342.	3.2	46
38	Facile non-hydrolytic synthesis of highly water dispersible, surfactant free nanoparticles of synthetic MFe <sub>2</sub> O <sub>4</sub> (M = Mn <sup>2+</sup> , Fe <sup>2+</sup> , Co <sup>2+</sup> , Ni <sup>2+</sup> ) ferrite spinel by a modified Bradley reaction. <i>RSC Advances</i> , 2013, 3, 12230.	1.7	46
39	Synthesis of WO <sub>3</sub> Nanorods by Reacting WO(OMe) <sub>4</sub> under Autogenic Pressure at Elevated Temperature Followed by Annealing. <i>Inorganic Chemistry</i> , 2005, 44, 9938-9945.	1.9	45
40	Sol-gel routes for microporous zirconia and titania membranes. <i>Journal of Sol-Gel Science and Technology</i> , 2008, 48, 203-211.	1.1	45
41	Heteroleptic metal alkoxide oxoclusters as molecular models for the sol-gel synthesis of perovskite nanoparticles for bio-imaging applications. <i>Dalton Transactions</i> , 2008, , 3412.	1.6	45
42	Development of Combining of Human Bronchial Mucosa Models with XposeALI <sup>®</sup> for Exposure of Air Pollution Nanoparticles. <i>PLoS ONE</i> , 2017, 12, e0170428.	1.1	45
43	Chemistry of 2,2,6,6-Tetramethyl-3,5-heptanedione (Hthd) Modification of Zirconium and Hafnium Propoxide Precursors. <i>Inorganic Chemistry</i> , 2006, 45, 4938-4950.	1.9	44
44	Molecular insights into the selective action of a magnetically removable complexone-grafted adsorbent. <i>Dalton Transactions</i> , 2015, 44, 1273-1282.	1.6	44
45	The synthesis and X-ray crystal structure of molybdenum oxomethoxide [MoO(OMe) <sub>4</sub> ] <sub>2</sub> . <i>Polyhedron</i> , 1993, 12, 1573-1576.	1.0	43
46	Preparation of iron oxide nanocrystals by surfactant-free or oleic acid-assisted thermal decomposition of a Fe(III) alkoxide. <i>Journal of Magnetism and Magnetic Materials</i> , 2008, 320, 781-787.	1.0	42
47	Physicochemical approach to the studies of metal alkoxides. <i>Polyhedron</i> , 1998, 17, 899-915.	1.0	40
48	Stabilization and destabilization of zirconium propoxide precursors by acetylacetonElectronic supplementary information (ESI) available: summary of <sup>1</sup> H NMR spectra and CIF files for compounds 1 and 2. See <a href="http://www.rsc.org/suppdata/cc/b4/b406012a/">http://www.rsc.org/suppdata/cc/b4/b406012a/</a> . <i>Chemical Communications</i> , 2004, , 1874.	2.2	40
49	Removal of Diclofenac, Paracetamol, and Carbamazepine from Model Aqueous Solutions by Magnetic Sol-gel Encapsulated Horseradish Peroxidase and Lignin Peroxidase Composites. <i>Nanomaterials</i> , 2020, 10, 282.	1.9	39
50	Reactions of coordinated ligands: topological and stoichiometric control for mixed-metal alkoxides: synthesis and molecular structure of [La{(OC <sub>2</sub> H <sub>4</sub> ) <sub>3</sub> N} <sub>2</sub> {Nb(OPri) <sub>4</sub> } <sub>3</sub> ]. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 705.	2.0	38
51	Homo- and hetero-metallic rhenium oxomethoxide complexes with a M <sub>4</sub> (μ-O) <sub>2</sub> (μ-Ome) <sub>4</sub> planar core—a new family of metal alkoxides displaying a peculiar structural disorder. Preparation and X-ray single crystal study. <i>Dalton Transactions RSC</i> , 2001, , 2762-2768.	2.3	38
52	Structure of the Dimethyl Sulfoxide Solvated Thallium(III) Ion in Solution and in the Solid State. <i>Inorganic Chemistry</i> , 2001, 40, 6432-6438.	1.9	38
53	An approach to heterometallic alkoxide- <sup>η</sup> <sup>2</sup> -diketonate complexes with a M <sub>4</sub> O <sub>4</sub> cubane-like core and new prospects of their application in preparation of solid catalysts. X-ray single crystal study of (Co,Ni) <sub>4</sub> (acac) <sub>4</sub> ( <sup>1</sup> / <sub>4</sub> -Ome) <sub>4</sub> (MeOH) <sub>4</sub> , Co <sub>2</sub> Ni <sub>2</sub> (acac) <sub>4</sub> ( <sup>1</sup> / <sub>4</sub> -Ome) <sub>4</sub> (OAc) <sub>2</sub> and Mg <sub>4</sub> (acac) <sub>4</sub> ( <sup>1</sup> / <sub>4</sub> -Ome) <sub>4</sub> (MeOH) <sub>4</sub> . <i>Polyhedron</i> , 2001, 20, 915-922.	1.0	37
54	Synthesis, X-ray single crystal and magnetic study of new heteroleptic late transition metal alkoxides with tetranuclear square planar metal core, Co <sub>4</sub> Cl <sub>2</sub> (OC <sub>2</sub> H <sub>4</sub> OEt) <sub>6</sub> , Co <sub>4</sub> (OMe) <sub>2</sub> (acac) <sub>6</sub> (MeOH) <sub>2</sub> and Zn <sub>4</sub> (OMe) <sub>2</sub> (acac) <sub>6</sub> (C <sub>7</sub> H <sub>8</sub> ). <i>Polyhedron</i> , 2003, 22, 2581-2586.	1.0	37

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55	High surface area ordered mesoporous nano-titania by a rapid surfactant-free approach. <i>Journal of Materials Chemistry</i> , 2012, 22, 20374.	6.7	37
56	Toward Molecular Recognition of REEs: Comparative Analysis of Hybrid Nanoadsorbents with the Different Complexonate Ligands EDTA, DTPA, and TTHA. <i>Inorganic Chemistry</i> , 2017, 56, 13938-13948.	1.9	37
57	The alkoxides of zirconium and hafnium: direct electrochemical synthesis and mass-spectral study. Do $M(OR)_4$ , where $M=Zr, Hf, Sn$ , really exist?. <i>Russian Chemical Bulletin</i> , 1995, 44, 734-742.	0.4	35
58	The mystery of $VO(OEt)_3$ conversion on microhydrolysis disclosed: the X-ray single crystal study of $V_6O_7(OEt)_{12}$ . <i>Inorganic Chemistry Communication</i> , 2000, 3, 203-204.	1.8	35
59	Synthesis and crystal structure of the double barium-titanium isopropoxide $[Ba_4Ti_4(\mu_4-O)_4(\mu_3-OR)_2(\mu-OR)_8(OR)_6(ROH)_4][Ba_4Ti_4(\mu_4-O)_4(\mu_3-OR)_2(\mu-OR)_9(OR)_5(ROH)_3]$ . <i>Journal of the Chemical Society Chemical Communications</i> , 1991, , 1605-1606.	1.9	34
60	Visualization of custom-tailored iron oxide nanoparticles chemistry, uptake, and toxicity. <i>Nanoscale</i> , 2012, 4, 7383.	2.8	34
61	Coordination Chemistry of the Solvated Agland Aullons in Liquid and Aqueous Ammonia, Trialkyl and Triphenyl Phosphite, and Tri-n-butylphosphine Solutions. <i>Inorganic Chemistry</i> , 2006, 45, 6912-6921.	1.9	33
62	Crystal Structure and Morphology Evolution in the $LaXO_3$ , $X = Al, Ga, In$ Nano-Oxide Series. Consequences for the Synthesis of Luminescent Phosphors. <i>Inorganic Chemistry</i> , 2011, 50, 2966-2974.	1.9	33
63	Molecular insight into the mode-of-action of phosphonate monolayers as active functions of hybrid metal oxide adsorbents. Case study in sequestration of rare earth elements. <i>RSC Advances</i> , 2015, 5, 24575-24585.	1.7	33
64	Nanoparticle Self-Assembly Mechanisms in the Colloidal Synthesis of Iron Titanate Nanocomposite Photocatalysts for Environmental Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2814-2821.	3.2	32
65	The solution thermolysis approach to molybdenum(V) alkoxides: synthesis, solid state and solution structures of the bimetallic alkoxides of molybdenum(V) and niobium(V), tantalum(V) and tungsten(V). <i>Dalton Transactions RSC</i> , 2000, , 387-394.	2.3	31
66	Synthesis, characterization and molecular structures of homo- and heterometallic nickel(II) aminoalkoxides $Ni(\hat{1}-2-ORN)_2$ and $Ni(Ni_{0.25}Cu_{0.75})_2(\hat{1}/4-3-OH)(\hat{1}/4-OAc)(\hat{1}-1-OAc)_2(\hat{1}/4, \hat{1}-2-ORN)_2(\hat{1}-2-RNOH)$ ( $RN=CHMeCH_2NMe_2$ ). <i>Polyhedron</i> , 2001, 20, 2163-2169.	1.0	31
67	Mesoporous silica adsorbents modified with amino polycarboxylate ligands - functional characteristics, health and environmental effects. <i>Journal of Hazardous Materials</i> , 2021, 406, 124698.	6.5	31
68	Organic dyes (acid red, fluorescein, methylene blue) and copper(II) adsorption on amino silica spherical particles with tailored surface hydrophobicity and porosity. <i>Journal of Molecular Liquids</i> , 2021, 336, 116301.	2.3	31
69	A convenient route to anionic and cyclic aluminosiloxanes: crystal structures of $[PyH][\hat{1}Al\{OSiPh_2(OSiPh_2)_2O\}_2]$ and the first twelve-membered organic aluminosilicate $Al_2Si_4O_6$ ring. <i>New Journal of Chemistry</i> , 2001, 25, 528-530.	1.4	30
70	Purposeful construction versus self-assembly in approaches to single source precursors of spinel materials. Synthesis, structure and stability studies of $M_{ii}Al_2(acac)_3(OiPr)_4(OAc)$ , $M_{ii} = Mn, Co, Zn$ - a new class of heterometallic heteroleptic alkoxide complexes. <i>Journal of Materials Chemistry</i> , 2004, 14, 3150.	6.7	30
71	Surface Functionalization of the Metal Oxide Nanoparticles with Biologically Active Molecules Containing Phosphonate Moieties. Case Study of $BaTiO_3$ . <i>Journal of Physical Chemistry C</i> , 2011, 115, 9850-9860.	1.5	30
72	Application of metal alkoxides in the synthesis of oxides. <i>Integrated Ferroelectrics</i> , 1992, 1, 343-352.	0.3	29

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73	Synthesis of Nanocrystalline Zirconium Titanate and its Dielectric Properties. Journal of Physical Chemistry C, 2007, 111, 2484-2489.	1.5	29
74	The coordination chemistry of the copper(II), zinc(II) and cadmium(II) ions in liquid and aqueous ammonia solution, and the crystal structures of hexaamminecopper(II) perchlorate and chloride, and hexaamminecadmium(II)chloride. Journal of Molecular Liquids, 2007, 131-132, 113-120.	2.3	29
75	Photoluminescence investigations of Eu <sup>3+</sup> doped BaTiO <sub>3</sub> nanopowders fabricated using heterometallic tetranuclear alkoxide complexes. Journal of Alloys and Compounds, 2008, 451, 557-562.	2.8	29
76	Immobilization of urease on magnetic nanoparticles coated by polysiloxane layers bearing thiol- or thiol- and alkyl-functions. Journal of Materials Chemistry B, 2014, 2, 2694-2702.	2.9	29
77	A new argument in favor of the ether elimination mechanism: formation of acetals on action of molybdenum alkoxides on carbonyl compounds. Polyhedron, 1998, 17, 2309-2311.	1.0	28
78	Interaction of Co(acac) <sub>2</sub> and Ta(OMe) <sub>5</sub> : isolation and single crystal study of the products. MII <sub>2</sub> MV <sub>2</sub> (acac) <sub>2</sub> (OMe) <sub>12</sub> , MII <sub>2</sub> ...=â€¦Co, Ni, Zn or Mg and MVâ€¦=â€¦Ta or Nb: A new class of heterometallic heteroleptic alkoxide complexes. Dalton Transactions RSC, 2001, , 574-579.	2.3	28
79	Powders and dense thin films of late transition metal oxide nanocomposites from structurally characterized single-source precursors Electronic supplementary information (ESI) available: further figures and crystallographic details. See <a href="http://www.rsc.org/suppdata/jm/b3/b306282a/">http://www.rsc.org/suppdata/jm/b3/b306282a/</a> . Journal of Materials Chemistry, 2004, 14, 344.	6.7	28
80	Applied Magnetic Field Rejects the Coating of Ferromagnetic Carbon from the Surface of Ferromagnetic Cobalt: RAPET of CoZr <sub>2</sub> (acac) <sub>2</sub> (OiPr) <sub>8</sub> . Journal of Physical Chemistry B, 2005, 109, 6121-6125.	1.2	28
81	Simple and Efficient Synthesis of a Nd:LaAlO <sub>3</sub> NIR Nanophosphor from Rare Earth Alkoxo-Monoaluminates Ln <sub>2</sub> Al <sub>2</sub> (O <sup>sup</sup> <sub>2</sub> Pr) <sub>12</sub> ( <sup>sup</sup> <sub>2</sub> PrOH) <sub>2</sub> Single Source Precursors by Bradley Reaction. Inorganic Chemistry, 2010, 49, 2684-2691.	1.9	28
82	Impact of matrix properties on the survival of freeze-dried bacteria. Journal of the Science of Food and Agriculture, 2011, 91, 2518-2528.	1.7	28
83	Protein Nanofibrils and Their Hydrogel Formation with Metal Ions. ACS Nano, 2021, 15, 5341-5354.	7.3	28
84	Synthesis, X-ray structure and thermal decomposition of [lanthanum [dioxoisopropoxomolybdate] [La <sub>2</sub> Mo <sub>4</sub> O <sub>4</sub> ( <sup>1/4</sup> O) <sub>4</sub> ( <sup>1/4</sup> OPri) <sub>8</sub> (Opri) <sub>6</sub> ]. Polyhedron, 1996, 15, 335-338.	1.0	27
85	Lanthanum Molybdate Nanoparticles from the Bradley Reaction: Factors Influencing Their Composition, Structure, and Functional Characteristics as Potential Matrixes for Luminescent Phosphors. Inorganic Chemistry, 2014, 53, 943-951.	1.9	27
86	Mixed-Ligand Titanium $\alpha$ -Oxo Clusters: Structural Insights into the Formation and Binding of Organic Molecules and Transformation into Oxide Nanostructures on Hydrolysis and Thermolysis. European Journal of Inorganic Chemistry, 2017, 2017, 4117-4122.	1.0	27
87	Anodic oxidation of molybdenum and tungsten in alcohols: isolation and X-ray single-crystal study of side products. Journal of the Chemical Society Dalton Transactions, 1998, , 21-30.	1.1	26
88	The structure of the bismuth ethoxide ethanol solvate. A new structural type for octameric alkoxides. Inorganic Chemistry Communication, 2002, 5, 549-551.	1.8	26
89	New tabletop SEM-EDS-based approach for cost-efficient monitoring of airborne particulate matter. Environmental Pollution, 2011, 159, 311-318.	3.7	26
90	Protection of Thiol Groups on the Surface of Magnetic Adsorbents and Their Application for Wastewater Treatment. Scientific Reports, 2018, 8, 8592.	1.6	26

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91	<i>In Situ</i> Activation of an Indium(III) Triazenide Precursor for Epitaxial Growth of Indium Nitride by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2020, 32, 4481-4489.	3.2	26
92	Tyrosine residues mediate supercontraction in biomimetic spider silk. <i>Communications Materials</i> , 2021, 2, .	2.9	26
93	Oxoalkoxides? True precursors of complex oxides. <i>Journal of Sol-Gel Science and Technology</i> , 1994, 2, 17-23.	1.1	25
94	Sol-Gel Derived Adsorbents with Enzymatic and Complexonate Functions for Complex Water Remediation. <i>Nanomaterials</i> , 2017, 7, 298.	1.9	25
95	First principles simulation of reaction steps in the atomic layer deposition of titania: dependence of growth on Lewis acidity of titanocene precursor. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 7954.	1.3	24
96	Hybrid silica nanoparticles for sequestration and luminescence detection of trivalent rare-earth ions (Dy <sup>3+</sup> and Nd <sup>3+</sup> ) in solution. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	24
97	Electrochemical Synthesis, X-ray Single Crystal, IR Spectroscopic, and Quantum Chemical Investigation of Molybdenum and Tungsten Hexamethoxides. <i>Inorganic Chemistry</i> , 2001, 40, 3815-3818.	1.9	23
98	Alkoxide Route to Mixed Oxides of Rhenium, Niobium, and Tantalum. Preparation and X-ray Single-Crystal Study of a Novel Rhenium <sup>5+</sup> Niobium Methoxo Complex, Nb <sub>2</sub> (OMe) <sub>8</sub> (ReO <sub>4</sub> ) <sub>2</sub> . <i>Chemistry of Materials</i> , 2002, 14, 2378-2383.	3.2	23
99	Thermal decomposition of the methoxide complexes MoO(OMe) <sub>4</sub> , Re <sub>4</sub> O <sub>6</sub> (OMe) <sub>12</sub> and (Re <sup>1+</sup> Mo) Tj ETQq1 1 0.784314 rgBT/Overl 2.0	2.0	23
100	Geometrical Molecular Structure Design Concept in Approach to Homo- and Heterometallic Precursors of Advanced Materials in Sol-Gel Technology. <i>Journal of Sol-Gel Science and Technology</i> , 2004, 32, 11-17.	1.1	23
101	Rhenium Nanochemistry for Catalyst Preparation. <i>Minerals (Basel, Switzerland)</i> , 2012, 2, 244-257.	0.8	23
102	New product from old reaction: uniform magnetite nanoparticles from iron-mediated synthesis of alkali iodides and their protection from leaching in acidic media. <i>RSC Advances</i> , 2014, 4, 22606-22612.	1.7	23
103	The synthesis, crystal and molecular structures of bimetallic ethoxides of barium and titanium, and calcium and titanium: [M{Ti <sub>2</sub> (μ <sub>3</sub> -OEt) <sub>2</sub> (μ-OEt) <sub>3</sub> (OEt) <sub>4</sub> } <sub>2</sub> ] (M = Ca, Ba). <i>Journal of the Chemical Society Chemical Communications</i> , 1994, .	2.0	22
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