

Vadim G Kessler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1230517/publications.pdf>

Version: 2024-02-01

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 | Bismuth(III) Forms Exceptionally Strong Complexes with Natural Organic Matter. <i>Environmental Science & Technology</i> , 2022, 56, 3076-3084. | 4.6 | 8 |
| 2 | Site-specific recognition of SARS-CoV-2 nsp1 protein with a tailored titanium dioxide nanoparticle – elucidation of the complex structure using NMR data and theoretical calculation. <i>Nanoscale Advances</i> , 2022, 4, 1527-1532. | 2.2 | 6 |
| 3 | Recovery of rare earth elements from NdFeB magnet by mono- and bifunctional mesoporous silica: Waste recycling strategies and perspectives. <i>Hydrometallurgy</i> , 2022, 210, 105855. | 1.8 | 15 |
| 4 | Evidence of the mineral ZnHAsO ₄ ·H ₂ O, koritnigite, controlling As(V) and Zn(II) solubility in a multi-contaminated soil. <i>Applied Geochemistry</i> , 2022, 140, 105301. | 1.4 | 2 |
| 5 | Factors influencing stoichiometry and stability of polyoxometalate – peptide complexes. <i>Dalton Transactions</i> , 2022, 51, 9511-9521. | 1.6 | 5 |
| 6 | In situ Functionalized Mesoporous Silicas for Sustainable Remediation Strategies in Removal of Inorganic Pollutants from Contaminated Environmental Water. <i>ACS Omega</i> , 2022, 7, 23576-23590. | 1.6 | 9 |
| 7 | Interaction between dopamine and the [HPW12O ₄₀] ²⁻ Keggin ion – an X-ray and NMR study. <i>Journal of Molecular Structure</i> , 2021, 1226, 129343. | 1.8 | 3 |
| 8 | 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 |
| 9 | Investigating the stable operating voltage for the MnFe ₂ O ₄ Li-ion battery anode. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1904-1913. | 2.5 | 9 |
| 10 | Enhanced Removal of Cr(III), Mn(II), Cd(II), Pb(II) and Cu(II) from Aqueous Solution by N-functionalized Ordered Silica. <i>Chemistry Africa</i> , 2021, 4, 451. | 1.2 | 9 |
| 11 | Single-Source Alkoxide Precursor Approach to Titanium Molybdate, TiMoO ₅ , and Its Structure, Electrochemical Properties, and Potential as an Anode Material for Alkali Metal Ion Batteries. <i>Inorganic Chemistry</i> , 2021, 60, 3593-3603. | 1.9 | 4 |
| 12 | Synthesis and Thermal Study of Hexacoordinated Aluminum(III) Triazenides for Use in Atomic Layer Deposition. <i>Inorganic Chemistry</i> , 2021, 60, 4578-4587. | 1.9 | 8 |
| 13 | Protein Nanofibrils and Their Hydrogel Formation with Metal Ions. <i>ACS Nano</i> , 2021, 15, 5341-5354. | 7.3 | 28 |
| 14 | Tyrosine residues mediate supercontraction in biomimetic spider silk. <i>Communications Materials</i> , 2021, 2, . | 2.9 | 26 |
| 15 | Hexacoordinated Gallium(III) Triazenide Precursor for Epitaxial Gallium Nitride by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2021, 33, 3266-3275. | 3.2 | 15 |
| 16 | Hemocompatibility of Nanotitania-Nanocellulose Hybrid Materials. <i>Nanomaterials</i> , 2021, 11, 1100. | 1.9 | 5 |
| 17 | Synthesis, Characterization, and Thermal Study of Divalent Germanium, Tin, and Lead Triazenides as Potential Vapor Deposition Precursors. <i>Inorganic Chemistry</i> , 2021, 60, 12759-12765. | 1.9 | 10 |
| 18 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Rare-Earth-Modified Titania Nanoparticles: Molecular Insight into Synthesis and Photochemical Properties. <i>Inorganic Chemistry</i> , 2021, 60, 14820-14830. | 1.9 | 9 |
| 20 | Modeling metal oxide nanoparticle GABA interactions: Complexation between the Keggin POM and β -aminobutyric acid in the solid state and in solution influenced by additional ligands. <i>Inorganica Chimica Acta</i> , 2021, 526, 120547. | 1.2 | 1 |
| 21 | Complexes of Keggin POMs $[PM_{12}O_{40}]^{3-}$ (M=Mo, W) with GlyGlyGly and GlyGlyGlyGly Oligopeptides. <i>European Journal of Inorganic Chemistry</i> , 2021, 2021, 54-61. | 1.0 | 7 |
| 22 | Modulating Surface Properties of the <i>Linothele fallax</i> Spider Web by Solvent Treatment. <i>Biomacromolecules</i> , 2021, 22, 4945-4955. | 2.6 | 3 |
| 23 | Solid-state structure and solution behavior of two titanium oxo-alkoxide complexes with phenylphosphonate ligands. <i>Polyhedron</i> , 2020, 178, 114276. | 1.0 | 5 |
| 24 | Hybrid Spider Silk with Inorganic Nanomaterials. <i>Nanomaterials</i> , 2020, 10, 1853. | 1.9 | 8 |
| 25 | Self-Assembly of Asymmetrically Functionalized Titania Nanoparticles into Nanoshells. <i>Materials</i> , 2020, 13, 4856. | 1.3 | 4 |
| 26 | Titanium phosphonate oxo-alkoxide μ_3 clusters: solution stability and facile hydrolytic transformation into nano titania. <i>RSC Advances</i> , 2020, 10, 6873-6883. | 1.7 | 16 |
| 27 | 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 |
| 28 | <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 |
| 29 | Luminescence performance of Cerium(III) ions incorporated into organofunctional mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2020, 305, 110331. | 2.2 | 6 |
| 30 | Silica and titania nanoadsorbents for application in molecular recognition technology. , 2019, , 33-49. | | 0 |
| 31 | Complexes of Keggin POMs $[PM_{12}O_{40}]^{3-}$ (M = Mo, W) with GlyGly Peptide and Arginine: Crystal Structures and Solution Reactivity. <i>European Journal of Inorganic Chemistry</i> , 2019, 2019, 4297-4305. | 1.0 | 11 |
| 32 | Formation of mesoporous structure in $Al_2O_3 \cdot NaAlO_2$ -based materials produced by template synthesis. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 92, 293-303. | 1.1 | 3 |
| 33 | Self-assembly of plant protein fibrils interacting with superparamagnetic iron oxide nanoparticles. <i>Scientific Reports</i> , 2019, 9, 8939. | 1.6 | 20 |
| 34 | Phase Control in Hafnia: New Synthesis Approach and Convergence of Average and Local Structure Properties. <i>ACS Omega</i> , 2019, 4, 8881-8891. | 1.6 | 15 |
| 35 | Optically Active Hybrid Materials Based on Natural Spider Silk. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 22962-22972. | 4.0 | 14 |
| 36 | Chemical and Biochemical Approaches for the Synthesis of Substituted Dihydroxybutanones and Di- and Tri-Hydroxypentanones. <i>Journal of Organic Chemistry</i> , 2019, 84, 6982-6991. | 1.7 | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Hierarchically porous zirconia through precursor-directed large-scale synthesis. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 90, 140-148. | 1.1 | 2 |
| 38 | Cu ^{II} Frameworks from Di(2-pyridyl) Ketone and Benzene-1,3,5-triphosphonic Acid. <i>European Journal of Inorganic Chemistry</i> , 2018, 2018, 91-98. | 1.0 | 8 |
| 39 | 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 |
| 40 | Coordination of rare earth element cations on the surface of silica-derived nanoadsorbents. <i>Dalton Transactions</i> , 2018, 47, 1312-1320. | 1.6 | 18 |
| 41 | Contact (kallikrein/kinin) system activation in whole human blood induced by low concentrations of γ -Fe ₂ O ₃ nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2018, 14, 735-744. | 1.7 | 17 |
| 42 | Full Tetragonal Phase Stabilization in ZrO ₂ Nanoparticles Using Wet Impregnation: Interplay of Host Structure, Dopant Concentration and Sensitivity of Characterization Technique. <i>Nanomaterials</i> , 2018, 8, 988. | 1.9 | 16 |
| 43 | Simultaneous Removal of Acetaminophen, Diclofenac, and Cd(II) by <i>Trametes versicolor</i> Laccase Immobilized on Fe ₃ O ₄ /SiO ₂ -DTPA Hybrid Nanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 9979-9989. | 3.2 | 54 |
| 44 | 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 |
| 45 | The Synthesis and Solution Stability of Alkoxide Precursors. , 2018, , 31-80. | | 5 |
| 46 | Basic Medium Heterogeneous Solution Synthesis of γ -MnO ₂ Nanoflakes as an Anode or Cathode in Half Cell Configuration (vs. Lithium) of Li-Ion Batteries. <i>Nanomaterials</i> , 2018, 8, 608. | 1.9 | 18 |
| 47 | Protection of Thiol Groups on the Surface of Magnetic Adsorbents and Their Application for Wastewater Treatment. <i>Scientific Reports</i> , 2018, 8, 8592. | 1.6 | 26 |
| 48 | Mesoporous Tantalum Oxide Photocatalyst: Structure and Activity Evaluation. <i>ChemistrySelect</i> , 2017, 2, 421-427. | 0.7 | 10 |
| 49 | Group III quinaldates: synthesis, structure and photoluminescence. <i>Journal of Coordination Chemistry</i> , 2017, 70, 997-1007. | 0.8 | 3 |
| 50 | Controlling nucleation and growth of nano-CaCO ₃ via CO ₂ sequestration by a calcium alkoxide solution to produce nanocomposites for drug delivery applications. <i>Acta Biomaterialia</i> , 2017, 57, 426-434. | 4.1 | 17 |
| 51 | Cytoprotective Encapsulation of Individual Jurkat T Cells within Durable TiO ₂ Shells for T _H 1 Cell Therapy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 10702-10706. | 7.2 | 74 |
| 52 | Cytoprotective Encapsulation of Individual Jurkat T Cells within Durable TiO ₂ Shells for T _H 1 Cell Therapy. <i>Angewandte Chemie</i> , 2017, 129, 10842-10846. | 1.6 | 14 |
| 53 | Unusual seeding mechanism for enhanced performance in solid-phase magnetic extraction of Rare Earth Elements. <i>Scientific Reports</i> , 2017, 7, 43740. | 1.6 | 11 |
| 54 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Mixed-Ligand Titanium α -Oxo Clusters: Structural Insights into the Formation and Binding of Organic Molecules and Transformation into Oxide Nanostructures on Hydrolysis and Thermolysis. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 4117-4122. | 1.0 | 27 |
| 56 | Nanoscale insights into doping behavior, particle size and surface effects in trivalent metal doped SnO ₂ . <i>Scientific Reports</i> , 2017, 7, 9598. | 1.6 | 64 |
| 57 | Titelbild: Cytoprotective Encapsulation of Individual Jurkat T Cells within Durable TiO ₂ Shells for T α Cell Therapy (<i>Angew. Chem.</i> 36/2017). <i>Angewandte Chemie</i> , 2017, 129, 10745-10745. | 1.6 | 0 |
| 58 | Dispersion of TiO ₂ 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 |
| 59 | Cu(ii) frameworks from a α -mixed-ligand approach. <i>CrystEngComm</i> , 2017, 19, 4355-4367. | 1.3 | 7 |
| 60 | 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 |
| 61 | Sol-Gel Derived Adsorbents with Enzymatic and Complexonate Functions for Complex Water Remediation. <i>Nanomaterials</i> , 2017, 7, 298. | 1.9 | 25 |
| 62 | Tailoring bifunctional hybrid organic-inorganic nanoadsorbents by the choice of functional layer composition probed by adsorption of Cu ²⁺ ions. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 334-347. | 1.5 | 19 |
| 63 | Development of Combining of Human Bronchial Mucosa Models with XposeALIA [®] for Exposure of Air Pollution Nanoparticles. <i>PLoS ONE</i> , 2017, 12, e0170428. | 1.1 | 45 |
| 64 | Comparing human respiratory adverse effects after acute exposure to particulate matter in conventional and particle-reduced swine building environments. <i>Occupational and Environmental Medicine</i> , 2016, 73, 648-655. | 1.3 | 10 |
| 65 | 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 |
| 66 | Summary of the 3rd sol-gel conference of the CIS countries. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 80, 233-238. | 1.1 | 0 |
| 67 | Self-assembled SnO ₂ micro- and nanosphere-based gas sensor thick films from an alkoxide-derived high purity aqueous colloid precursor. <i>Nanoscale</i> , 2016, 8, 7056-7067. | 2.8 | 10 |
| 68 | Enzyme immobilization on a nanoadsorbent for improved stability against heavy metal poisoning. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 144, 135-142. | 2.5 | 17 |
| 69 | Palladium Nanoparticles: Is There a Risk for Aquatic Ecosystems?. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2016, 97, 153-158. | 1.3 | 15 |
| 70 | Pushing the theoretical capacity limits of iron oxide anodes: capacity rise of β -Fe ₂ O ₃ nanoparticles in lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18107-18115. | 5.2 | 61 |
| 71 | The Synthesis and Solution Stability of Alkoxide Precursors. , 2016, , 1-50. | | 3 |
| 72 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Controlling micro- and nanostructure and activity of the NaAlO ₂ biodiesel transesterification catalyst by its dissolution in a mesoporous γ -Al ₂ O ₃ -matrix. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 76, 90-97. | 1.1 | 11 |
| 74 | Zirconium(IV) and hafnium(IV) coordination polymers with a tetra-acetyl-ethane (Bisacac) ligand: Synthesis, structure elucidation and gas sorption behavior. <i>Polyhedron</i> , 2015, 89, 297-303. | 1.0 | 6 |
| 75 | 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 |
| 76 | Electrochemical Energy Storage: Ordered Network of Interconnected SnO ₂ Nanoparticles for Excellent Lithium-Ion Storage (Adv. Energy Mater. 5/2015). <i>Advanced Energy Materials</i> , 2015, 5, n/a-n/a. | 10.2 | 1 |
| 77 | 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 |
| 78 | Anomalous adsorption of biomolecules on a Zn-based metal-organic framework obtained via a facile room-temperature route. <i>Chemical Communications</i> , 2015, 51, 17764-17767. | 2.2 | 21 |
| 79 | 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 |
| 80 | Molecular insights into the selective action of a magnetically removable complexone-grafted adsorbent. <i>Dalton Transactions</i> , 2015, 44, 1273-1282. | 1.6 | 44 |
| 81 | Ordered Network of Interconnected SnO ₂ Nanoparticles for Excellent Lithium-Ion Storage. <i>Advanced Energy Materials</i> , 2015, 5, 1401289. | 10.2 | 147 |
| 82 | Hybrid silica nanoparticles for sequestration and luminescence detection of trivalent rare-earth ions (Dy ³⁺ and Nd ³⁺) in solution. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1. | 0.8 | 24 |
| 83 | Circular serendipity: <i>in situ</i> ligand transformation for the self-assembly of an hexadecametallic [Cu ^{II} ₁₆] wheel. <i>Chemical Communications</i> , 2014, 50, 15002-15005. | 2.2 | 21 |
| 84 | A family of hexanuclear Mn(III) single-molecule magnets. <i>Journal of Coordination Chemistry</i> , 2014, 67, 3972-3986. | 0.8 | 12 |
| 85 | Precursor directed synthesis of 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 |
| 86 | Immobilization of urease on magnetic nanoparticles coated by polysiloxane layers bearing thiol- or thiol- and alkyl-functions. <i>Journal of Materials Chemistry B</i> , 2014, 2, 2694-2702. | 2.9 | 29 |
| 87 | The first depleted heterojunction TiO ₂ -MOF-based solar cell. <i>Chemical Communications</i> , 2014, 50, 10210-10213. | 2.2 | 112 |
| 88 | Lanthanum Molybdate Nanoparticles from the Bradley Reaction: Factors Influencing Their Composition, Structure, and Functional Characteristics as Potential Matrixes for Luminescent Phosphors. <i>Inorganic Chemistry</i> , 2014, 53, 943-951. | 1.9 | 27 |
| 89 | A family of [Ni ₈] cages templated by $\frac{1}{4}$ -peroxide from dioxygen activation. <i>Inorganic Chemistry Frontiers</i> , 2014, 1, 487-494. | 3.0 | 6 |
| 90 | Study of the curing mechanism of metal alkoxide liquid threads for the synthesis of metal oxide fibers or microtubes. <i>RSC Advances</i> , 2014, 4, 12545-12554. | 1.7 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | General Facile Approach to Transition Metal Oxides with Highly Uniform Mesoporosity and Their Application as Adsorbents for Heavy Metal Ion Sequestration. <i>Chemistry - A European Journal</i> , 2014, 20, 10732-10736. | 1.7 | 20 |
| 92 | 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 |
| 93 | The sol-gel synthesis of cotton/TiO ₂ composites and their antibacterial properties. <i>Surface and Coatings Technology</i> , 2014, 253, 171-179. | 2.2 | 70 |
| 94 | Molecular design approach to single-source precursors of perovskite stannate materials. <i>Polyhedron</i> , 2014, 81, 21-26. | 1.0 | 5 |
| 95 | Novel solvothermal approach to hydrophilic nanoparticles of late transition elements and its evaluation by nanoparticle tracking analysis. <i>Advances in Nano Research</i> , 2014, 2, 77-88. | 0.9 | 3 |
| 96 | Aqueous route to TiO ₂ -based nanomaterials using pH-neutral carboxylate precursors. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 68, 464-470. | 1.1 | 12 |
| 97 | One-pot synthesis of mesoporous SBA-15 containing protonated 3-aminopropyl groups. <i>Journal of Porous Materials</i> , 2013, 20, 1315-1321. | 1.3 | 8 |
| 98 | Gallium(III) complexes based on N,N'-bis(salicylidene)propane-1,3-diamine and its derivatives. <i>Polyhedron</i> , 2013, 64, 77-83. | 1.0 | 6 |
| 99 | Sol-gel synthesis, characterization and catalytic activity of γ -alumina with bimodal mesopore distribution. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 68, 155-161. | 1.1 | 4 |
| 100 | Space and time resolved monitoring of airborne particulate matter in proximity of a traffic roundabout in Sweden. <i>Environmental Pollution</i> , 2013, 182, 364-370. | 3.7 | 15 |
| 101 | Interaction of nickel aminoalkoxide with samarium β -diketonate - Identification of new precursors for MOCVD synthesis of SmNiO ₃ perovskite films. <i>Polyhedron</i> , 2013, 50, 31-35. | 1.0 | 2 |
| 102 | Urease adsorption and activity on magnetite nanoparticles functionalized with monofunctional and bifunctional surface layers. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 68, 447-454. | 1.1 | 18 |
| 103 | Solution equilibrium behind the room-temperature synthesis of nanocrystalline titanium dioxide. <i>Nanoscale</i> , 2013, 5, 3330. | 2.8 | 56 |
| 104 | Zirconium and hafnium tert-butoxides and tert-butoxo- β -diketonate complexes - Isolation, structural characterization and application in the one-step synthesis of 3D metal oxide nanostructures. <i>Polyhedron</i> , 2013, 53, 150-156. | 1.0 | 8 |
| 105 | Facile non-hydrolytic synthesis of highly water dispersible, surfactant free nanoparticles of synthetic MFe ₂ O ₄ (M = Mn ²⁺ , Fe ²⁺ , Co ²⁺ , Ni ²⁺) ferrite spinel by a modified Bradley reaction. <i>RSC Advances</i> , 2013, 3, 12230. | 1.7 | 46 |
| 106 | Mesoporous Anatase TiO ₂ Nanorods as Thermally Robust Anode Materials for Li-ion Batteries: Detailed Insight into the Formation Mechanism. <i>Chemistry - A European Journal</i> , 2013, 19, 17439-17444. | 1.7 | 15 |
| 107 | Single Source Precursor Approach. , 2013, , 71-92. | | 3 |
| 108 | Rhenium Nanochemistry for Catalyst Preparation. <i>Minerals (Basel, Switzerland)</i> , 2012, 2, 244-257. | 0.8 | 23 |

| # | ARTICLE | IF | CITATIONS |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | 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 |
| 110 | Structural characterization, solution stability, and potential health and environmental effects of the Nano-TiO ₂ bioencapsulation matrix and the model product of its biodegradation TiBALDH. <i>RSC Advances</i> , 2012, 2, 4228. | 1.7 | 21 |
| 111 | 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 |
| 112 | A novel route of synthesis of sodium hexafluorosilicate two component cluster crystals using BF ₄ ⁻ containing ionic liquids. <i>Journal of Crystal Growth</i> , 2012, 361, 51-56. | 0.7 | 8 |
| 113 | Visualization of custom-tailored iron oxide nanoparticles chemistry, uptake, and toxicity. <i>Nanoscale</i> , 2012, 4, 7383. | 2.8 | 34 |
| 114 | Biocompatible titania hydrogels with chemically triggered release of a photosensitive dye. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 62, 370-377. | 1.1 | 0 |
| 115 | Solution-Engineered Palladium Nanoparticles: Model for Health Effect Studies of Automotive Particulate Pollution. <i>ACS Nano</i> , 2011, 5, 5312-5324. | 7.3 | 73 |
| 116 | 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 |
| 117 | Precursor-Directed Assembly of Complex Oxide Nanobeads: The Role of Strongly Coordinated Inorganic Anions. <i>Langmuir</i> , 2011, 27, 11622-11628. | 1.6 | 11 |
| 118 | High-spin Ni(II) clusters: triangles and planar tetranuclear complexes. <i>Dalton Transactions</i> , 2011, 40, 4590. | 1.6 | 22 |
| 119 | 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 |
| 120 | On the Reliability of Heteronuclear Precursors-Ligand Effects in the Li-MOCVD Synthesis of SrTiO ₃ Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 8302-8308. | 0.9 | 3 |
| 121 | New tabletop SEM-EDS-based approach for cost-efficient monitoring of airborne particulate matter. <i>Environmental Pollution</i> , 2011, 159, 311-318. | 3.7 | 26 |
| 122 | Crystal Engineering of Nanomorphology for Complex Oxide Materials via Thermal Decomposition of Metal-Organic Frameworks. Case Study of Sodium Tantalate. <i>Crystal Growth and Design</i> , 2011, 11, 1238-1243. | 1.4 | 15 |
| 123 | Impact of matrix properties on the survival of freeze-dried bacteria. <i>Journal of the Science of Food and Agriculture</i> , 2011, 91, 2518-2528. | 1.7 | 28 |
| 124 | Controlling precursor stability and evaporation through molecular design. Pseudo single source precursor approach to MOCVD SrTiO ₃ thin films. <i>Applied Surface Science</i> , 2011, 257, 2281-2290. | 3.1 | 9 |
| 125 | A new concept for titanium oxo-alkoxo-carboxylates TM encapsulated biocompatible time temperature food indicators based on arising, not fading color. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 55, 1-8. | 1.1 | 19 |
| 126 | Straightforward synthesis and structural characterization of the first alkoxy-zirconosilsesquioxanes – Potential models for zirconia-silica epoxidation catalysts. <i>Inorganic Chemistry Communication</i> , 2010, 13, 774-777. | 1.8 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 127 | Highly symmetric organic ligand-capped Lindqvist structures derived from 3d-elements. Dalton Transactions, 2010, 39, 7774. | 1.6 | 19 |
| 128 | Simple and Efficient Synthesis of a Nd:LaAlO ₃ NIR Nanophosphor from Rare Earth Alkoxo-Monoaluminates Ln ₂ Al ₂ (O ⁿ Pr) ₁₂ (PrOH) ₂ Single Source Precursors by Bradley Reaction. Inorganic Chemistry, 2010, 49, 2684-2691. | 1.9 | 28 |
| 129 | Biomimetic Synthesis of Hierarchically Porous Nanostructured Metal Oxide Microparticles—Potential Scaffolds for Drug Delivery and Catalysis. Langmuir, 2010, 26, 9809-9817. | 1.6 | 58 |
| 130 | A cost-effective method for monitoring airborne particulate matter using tabletop SEM-EDS. , 2010, , . | | 1 |
| 131 | Modification of Different Zirconium Propoxide Precursors by Diethanolamine. Is There a Shelf Stability Issue for Sol-Gel Applications?. International Journal of Molecular Sciences, 2009, 10, 4977-4989. | 1.8 | 9 |
| 132 | Precursor and Solvent Effects in the Nonhydrolytic Synthesis of Complex Oxide Nanoparticles for Bioimaging Applications by the Ether Elimination (Bradley) Reaction. Chemistry - A European Journal, 2009, 15, 6820-6826. | 1.7 | 59 |
| 133 | The chemistry behind the sol-gel synthesis of complex oxide nanoparticles for bio-imaging applications. Journal of Sol-Gel Science and Technology, 2009, 51, 264-271. | 1.1 | 66 |
| 134 | The molecular composition of non-modified and acac-modified propoxide and butoxide precursors of zirconium and hafnium dioxides. Journal of Sol-Gel Science and Technology, 2009, 51, 10-22. | 1.1 | 18 |
| 135 | Cluster and Heterometallic Alkoxide Derivatives of Rhenium and d-Elements of V-VI Groups. Journal of Cluster Science, 2009, 20, 23-36. | 1.7 | 4 |
| 136 | Mononuclear gallium(III) complexes based on salicylaldoximes: Synthesis, structure and spectroscopic characterization. Polyhedron, 2009, 28, 3291-3297. | 1.0 | 13 |
| 137 | Methodical Thermolysis of [Ba ₂ Ti ₂ (thd) ₄ (O ⁿ Pr) ₈ (PrOH) ₂] under Autogenous Pressure Followed by Combustion for the Synthesis of Dielectric Tetragonal BaTiO ₃ Nanopowder. Chemistry - an Asian Journal, 2009, 4, 1084-1091. | 1.7 | 1 |
| 138 | Tripodal Tetrahedral Titanium Coordination in the Silica-Grafted Titania Epoxidation Catalysts: Is Not It Only a Myth? Selective Formation of [Cy ₇ Si ₇ O ₁₂ Ti] ₂ (¹ / ₄ -OR) ₂ (¹ / ₄ -ROH) Cores on Thermal Dissociation of Alkoxytitanasilsesquioxanes. Inorganic Chemistry, 2009, 48, 9063-9065. | | 12 |
| 139 | Transforming the cube: a tetranuclear cobalt(II) cubane cluster and its transformation to a dimer of dimers. CrystEngComm, 2009, 11, 2117. | 1.3 | 13 |
| 140 | Sol-gel routes for microporous zirconia and titania membranes. Journal of Sol-Gel Science and Technology, 2008, 48, 203-211. | 1.1 | 45 |
| 141 | Synthesis of highly sterically hindered niobium and tantalum alkoxides and their microhydrolysis in strongly basic medium. Journal of Sol-Gel Science and Technology, 2008, 48, 61-65. | 1.1 | 13 |
| 142 | Chemically Triggered Bidelivery Using Metal-Organic Sol-Gel Synthesis. Angewandte Chemie - International Edition, 2008, 47, 8506-8509. | 7.2 | 67 |
| 143 | Substitution features in the isomorphous replacement series for metal-organic compounds (Nb _x Ta _{1-x}) ₂ O ₂ (OMe) ₁₄ (ReO ₄) ₂ , x=0.7, 0.5, 0.3—Single-source precursors of complex oxides with organized porosity. Journal of Solid State Chemistry, 2008, 181, 3294-3302. | 1.4 | 11 |
| 144 | Preparation of iron oxide nanocrystals by surfactant-free or oleic acid-assisted thermal decomposition of a Fe(III) alkoxide. Journal of Magnetism and Magnetic Materials, 2008, 320, 781-787. | 1.0 | 42 |

| # | ARTICLE | IF | CITATIONS |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 145 | Role of the Ancillary Ligand <i>N,N</i> -Dimethylaminoethanol in the Sensitization of Eu ^{III} and Tb ^{III} Luminescence in Dimeric β^2 -Diketonates. <i>Journal of Physical Chemistry A</i> , 2008, 112, 3614-3626. | 1.1 | 102 |
| 146 | New Insight into Mechanisms of Sol-Gel Process and New Materials and Opportunities for Bioencapsulation and Biodelivery. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2008, , 139-153. | 0.1 | 0 |
| 147 | Molecular Precursors of Mixed Oxide Materials for Sensor Applications and Molecular Imaging. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2008, , 397-403. | 0.1 | 0 |
| 148 | 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 |
| 149 | Dimeric lanthanide hexafluoroacetylacetonate adducts with 4-cyanopyridine-N-oxide. <i>Journal of Alloys and Compounds</i> , 2008, 451, 414-417. | 2.8 | 11 |
| 150 | Photoluminescence investigations of Eu ³⁺ doped BaTiO ₃ nanopowders fabricated using heterometallic tetranuclear alkoxide complexes. <i>Journal of Alloys and Compounds</i> , 2008, 451, 557-562. | 2.8 | 29 |
| 151 | Electrochemical Synthesis, Structural Characterization, and Decomposition of Rhenium Oxoethoxide, Re ₄ O ₄ (OEt) ₁₂ . Ligand Influence on the Structure and Bonding in the High-Valent Tetranuclear Planar Rhenium Alkoxide Clusters. <i>Inorganic Chemistry</i> , 2008, 47, 1295-1300. | 1.9 | 10 |
| 152 | Synthesis of Nanocrystalline Zirconium Titanate and its Dielectric Properties. <i>Journal of Physical Chemistry C</i> , 2007, 111, 2484-2489. | 1.5 | 29 |
| 153 | Oxoethoxide Chlorides – Representatives of Oligonuclear Alkoxide Complexes of Gallium: Penta- and Dodecanuclear Molecules. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 5182-5188. | 1.0 | 13 |
| 154 | Molecular structure design of single source precursors and multivariate analysis of their evaporation in dynamic vacuum using EI-Mass spectrometry. An approach to Barium–Strontium Titanate–Niobate as a case study. <i>Surface and Coatings Technology</i> , 2007, 201, 9082-9088. | 2.2 | 6 |
| 155 | Molecular design approach to a highly soluble and volatile bimetallic alkoxide of late transition metal and zirconium. Synthesis, X-ray single crystal and mass-spectral study of NiZr ₂ (acac)(OiPr) ₉ . <i>Inorganic Chemistry Communication</i> , 2007, 10, 94-96. | 1.8 | 8 |
| 156 | Isolation and structural characterization of the first homoleptic lanthanide–zirconium oxoisopropoxide, La ₂ Zr ₃ O(OPri) ₁₆ . Combination of an [M ₄ O] tetrahedron with an [MO ₆] octahedron – A new structure type for pentanuclear alkoxide complexes. <i>Inorganic Chemistry Communication</i> , 2007, 10, 352-354. | 1.8 | 4 |
| 157 | Nona-coordinated MO ₆ N ₃ centers M=Zr, Hf as a stable building block for the construction of heterometallic alkoxide precursors. <i>Inorganica Chimica Acta</i> , 2007, 360, 2045-2055. | 1.2 | 10 |
| 158 | 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. <i>Journal of Molecular Liquids</i> , 2007, 131-132, 113-120. | 2.3 | 29 |
| 159 | Synthesis and X-ray single crystal study of niobium and tantalum oxo-ethoxo-perhenates,. <i>Polyhedron</i> , 2007, 26, 862-866. | 1.0 | 10 |
| 160 | Electrosynthesis of tin(II) alkoxides. <i>Russian Journal of Inorganic Chemistry</i> , 2007, 52, 1682-1686. | 0.3 | 9 |
| 161 | Comparative study of bimetal alkoxo complexes of rhenium, niobium, and tantalum by single-crystal x-ray diffraction and IR spectroscopy. <i>Russian Journal of Inorganic Chemistry</i> , 2007, 52, 1687-1693. | 0.3 | 8 |
| 162 | Isolation and single crystal study of [Nb ₂ ($\frac{1}{4}$ -OMe) ₂ (OiPr) ₈]. Can alcohol interchange provide the homoleptic niobium isopropoxide?. <i>Journal of Sol-Gel Science and Technology</i> , 2007, 43, 105-109. | 1.1 | 11 |

| # | ARTICLE | IF | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 163 | Perovskite thin films grown by direct liquid injection MOCVD. <i>Applied Surface Science</i> , 2007, 253, 9091-9098. | 3.1 | 17 |
| 164 | Growth of carbon sausages filled with in situ formed tungsten oxide nanorods: thermal dissociation of tungsten(vi) isopropoxide in isopropanol. <i>New Journal of Chemistry</i> , 2006, 30, 370. | 1.4 | 20 |
| 165 | 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 |
| 166 | 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 |
| 167 | Synthesis and characterization of a large heterometallic alkoxide cation: Self-assembly and rational route to. <i>Inorganic Chemistry Communication</i> , 2006, 9, 667-670. | 1.8 | 8 |
| 168 | Interaction of barium oxide and hydroxide with methanol: X-ray single crystal study of Ba(OH) ₂ methanol solvates. <i>Polyhedron</i> , 2006, 25, 2401-2406. | 1.0 | 6 |
| 169 | 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 |
| 170 | A Single-Source-Precursor Approach to Late Transition Metal Molybdate Materials: The Structural Role of Chelating Ligands in the Formation of Heterometallic Heteroleptic Alkoxide Complexes. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 1413-1422. | 1.0 | 9 |
| 171 | Mesoporous Nanocrystalline Mixed Metal Oxides from Heterometallic Alkoxide Precursors: Cobalt-Nickel Oxide Spinel for Propane Oxidation. <i>European Journal of Inorganic Chemistry</i> , 2006, 2006, 4983-4988. | 1.0 | 49 |
| 172 | Microporous Zirconia-Titania Composite Membranes Derived from Diethanolamine-Modified Precursors. <i>Advanced Materials</i> , 2006, 18, 2165-2168. | 11.1 | 59 |
| 173 | Synthesis and characterization of orthorhombic, 2d-centered rectangular and lamellar iron oxide doped silica films. <i>Journal of Materials Chemistry</i> , 2006, 16, 4443-4453. | 6.7 | 15 |
| 174 | Unexpected structural analogy between early and late 3d transition metal alkoxide carboxylates: Synthesis and single crystal X-ray study of Ni ₆ (OH) ₂ (ORN) ₆ (OCOR) ₂ , RN=C ₂ H ₄ NMe ₂ , R=H, CH ₃ . <i>Polyhedron</i> , 2005, 24, 3052-3056. | 1.0 | 12 |
| 175 | The synthesis of iron (III) ethoxide revisited: Characterization of the metathesis products of iron (III) halides and sodium ethoxide. <i>Inorganica Chimica Acta</i> , 2005, 358, 3506-3512. | 1.2 | 16 |
| 176 | The structural characterization of the first mononuclear alkoxide cation: Isolation and X-ray study of [Mo(OMe) ₅ (CH ₃ CN)]Bi ₂ Cl ₇ . <i>Inorganic Chemistry Communication</i> , 2005, 8, 503-505. | 1.8 | 9 |
| 177 | Applied Magnetic Field Rejects the Coating of Ferromagnetic Carbon from the Surface of Ferromagnetic Cobalt: RAPET of CoZr ₂ (acac) ₂ (OiPr) ₈ . <i>Journal of Physical Chemistry B</i> , 2005, 109, 6121-6125. | 1.2 | 28 |
| 178 | Synthesis of WO ₃ Nanorods by Reacting WO(OMe) ₄ under Autogenic Pressure at Elevated Temperature Followed by Annealing. <i>Inorganic Chemistry</i> , 2005, 44, 9938-9945. | 1.9 | 45 |
| 179 | Thermal decomposition of the methoxide complexes MoO(OMe) ₄ , Re ₄ O ₆ (OMe) ₁₂ and (Re ^{IV} Mo) Tj ETQq1 1 0.784314 rgBT /Overlaid | 2.0 | 23 |
| 180 | Preparation of Powders and Films of NiAl ₂ O ₄ Spinel from a Structurally Characterized Molecular Precursor, NiAl ₂ (acac) ₄ (OiPr) ₄ . <i>Journal of Sol-Gel Science and Technology</i> , 2004, 31, 63-66. | 1.1 | 7 |

| # | ARTICLE | IF | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 181 | 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 |
| 182 | Supported Re and Mo oxides prepared using binuclear precursors: synthesis and characterization. <i>Journal of Molecular Catalysis A</i> , 2004, 216, 101-106. | 4.8 | 14 |
| 183 | The formylation of the upper-rims of thiacalixarenes: synthesis of the first tetra-formylated and the first meta-substituted thiacalix[4]arenes. <i>Tetrahedron Letters</i> , 2004, 45, 6329-6331. | 0.7 | 19 |
| 184 | Isolation, X-ray single crystal and theoretical study of quinquevalent metal oxoisopropoxides, Nb ₆ O ₈ (iPrO) ₁₄ (iPrOH) ₂ and Re ₄ O ₆ (OiPr) ₁₀ . <i>Inorganica Chimica Acta</i> , 2004, 357, 468-474. | 1.2 | 13 |
| 185 | New polynuclear aluminium oxoalkoxides: molecular structures of Al ₁₁ (¹ / ₄ -O) ₂ (¹ / ₄ -O) ₂ (¹ / ₄ -O) ₂ (¹ / ₄ -OPrn) ₁₀ (¹ / ₄ -OPri) ₂ (¹ / ₄ -ROH) ₂ (OPri) ₈ (OR), R=Prn,i and Al ₅ Mg ₄ (¹ / ₄ -O) ₂ (¹ / ₄ -O) ₂ (¹ / ₄ -OH) ₃ (¹ / ₄ -OPri) ₈ (¹ / ₄ , ¹ / ₂ -acac) ₄ (¹ / ₂ -acac) ₂ . <i>Polyhedron</i> , 2004, 23, 109-114. | 1.0 | 13 |
| 186 | Molecular structure design approach to perspective single-source precursors of titanate materials. Synthesis, X-ray single crystal and mass-spectrometric study of M ₂ Ti ₂ (acac) ₄ (OMe) ₈ , M=Mg, Co. <i>Inorganic Chemistry Communication</i> , 2004, 7, 18-20. | 1.8 | 17 |
| 187 | New pyridine adducts of organosilanols. <i>Inorganic Chemistry Communication</i> , 2004, 7, 341-343. | 1.8 | 7 |
| 188 | Bis-silsesquioxane complex as a molecular model of transition metal oxide-zeolite nanocomposite. <i>Inorganic Chemistry Communication</i> , 2004, 7, 588-591. | 1.8 | 4 |
| 189 | Synthesis and structure of dioxomolybdenum(VI) complex of amine triphenolato ligand. <i>Inorganic Chemistry Communication</i> , 2004, 7, 691-693. | 1.8 | 15 |
| 190 | Molecular design approach to a stable heterometallic zirconium-titanium alkoxide potential precursor of mixed-oxide ceramics. <i>Inorganic Chemistry Communication</i> , 2004, 7, 953-955. | 1.8 | 21 |
| 191 | Stabilization and destabilization of zirconium propoxide precursors by acetylacetonone Electronic supplementary information (ESI) available: summary of ¹ H NMR spectra and CIF files for compounds 1 and 2. See http://www.rsc.org/suppdata/cc/b4/b406012a/ . <i>Chemical Communications</i> , 2004, , 1874. | 2.2 | 40 |
| 192 | Purposeful construction versus self-assembly in approaches to single source precursors of spinel materials. Synthesis, structure and stability studies of MiiAl ₂ (acac) ₃ (OiPr) ₄ (OAc), Mii= Mn, Co, Zn ? a new class of heterometallic heteroleptic alkoxide complexes. <i>Journal of Materials Chemistry</i> , 2004, 14, 3150. | 6.7 | 30 |
| 193 | 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 http://www.rsc.org/suppdata/jm/b3/b306282a/ . <i>Journal of Materials Chemistry</i> , 2004, 14, 344. | 6.7 | 28 |
| 194 | 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 CoZr ₂ (acac) ₂ (OiPr) ₈ . <i>Chemistry of Materials</i> , 2004, 16, 1793-1798. | 3.2 | 54 |
| 195 | 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 |
| 196 | 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 |
| 197 | The Effect of a Magnetic Field on a RAPET (Reaction under Autogenic Pressure at Elevated Temperature) of MoO(OMe) ₄ : Fabrication of MoO ₂ Nanoparticles Coated with Carbon or Separated MoO ₂ and Carbon Particles. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6322-6327. | 1.2 | 49 |
| 198 | Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 883-886. | 1.1 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 199 | Solution Interaction of O-Donor Ligand Metal Complexes with Thiocarbonyl Compounds – A New General Route to Metal Sulfide Materials.. ChemInform, 2003, 34, no. | 0.1 | 0 |
| 200 | Synthesis, X-ray single crystal and magnetic study of new heteroleptic late transition metal alkoxides with tetranuclear square planar metal core, Co ₄ Cl ₂ (OC ₂ H ₄ OEt) ₆ , Co ₄ (OMe) ₂ (acac) ₆ (MeOH) ₂ and Zn ₄ (OMe) ₂ (acac) ₆ (C ₇ H ₈). Polyhedron, 2003, 22, 2581-2586. | 1.0 | 37 |
| 201 | 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. Ultrasonics Sonochemistry, 2003, 10, 1-9. | 3.8 | 49 |
| 202 | Solution interaction of O-donor ligand metal complexes with thiocarbonyl compounds – a new general route to metal sulfide materials. New Journal of Chemistry, 2003, 27, 1059-1064. | 1.4 | 9 |
| 203 | Design and synthesis of multifunctional thiacalixarenes and related metal derivatives for the preparation of sol-gel hybrid materials with non-linear optical properties. Dalton Transactions, 2003, , 2085-2092. | 1.6 | 57 |
| 204 | The discovery of the N,N-dimethylthioformamidium ion. A structural study of {(CH ₃) ₂ NCHSH} ₂ [HfCl ₆] in solid state and solution. Electronic supplementary information (ESI) available: 7 tables and 5 figures of IR, EXAFS and X-ray data as described in the text. See http://www.rsc.org/suppdata/nj/b2/b210969g/ . New Journal of Chemistry, 2003, 27, 850-853. | 1.4 | 8 |
| 205 | Molecular structure design and synthetic approaches to the heterometallic alkoxide complexes (soft) Tj ETQq1 1 0.784314 rgBT /Overlo Communications, 2003, , 1213-1222. | 2.2 | 121 |
| 206 | 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 H NMR spectra for 7 and 8; UV-Vis spectrum of 6 in toluene after various times. See http://www.rsc.org/suppdata/dt/b2/b206662a/ . Dalton Transactions, 2003, , 544-550. | 1.6 | 54 |
| 207 | The sonochemical preparation of lamellar MoO _x . Journal of Materials Chemistry, 2003, 13, 2851. | 6.7 | 4 |
| 208 | Alkoxide Route to Mixed Oxides of Rhenium, Niobium, and Tantalum. Preparation and X-ray Single-Crystal Study of a Novel Rhenium-Niobium Methoxo Complex, Nb ₂ (OMe) ₈ (ReO ₄) ₂ . Chemistry of Materials, 2002, 14, 2378-2383. | 3.2 | 23 |
| 209 | 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 |
| 210 | Synthesis and X-ray single crystal study of – first representative of a new structure type for the heterometallic alkoxide complexes. Inorganic Chemistry Communication, 2002, 5, 946-948. | 1.8 | 9 |
| 211 | Interaction of magnesium and niobium methoxides. X-ray single crystal study of Mg ₂ Nb ₂ O ₂ (OMe) ₁₀ (MeOH) ₄ . Polyhedron, 2002, 21, 1629-1634. | 1.0 | 2 |
| 212 | Preparation of trimetallic alkoxide complexes exploiting the isomorphous substitution approach.. Polyhedron, 2002, 21, 2317-2322. | 1.0 | 13 |
| 213 | Geometrical principles in the construction of molecular structures of heterometallic alkoxide complexes. Acta Crystallographica Section A: Foundations and Advances, 2002, 58, c132-c132. | 0.3 | 0 |
| 214 | Homo- and hetero-metallic rhenium oxomethoxide complexes with a M ₄ (μ-O) ₂ (μ-Ome) ₄ planar core – a new family of metal alkoxides displaying a peculiar structural disorder. Preparation and X-ray single crystal study. Dalton Transactions RSC, 2001, , 2762-2768. | 2.3 | 38 |
| 215 | Interaction of Co(acac) ₂ and Ta(OMe) ₅ : isolation and single crystal study of the products. MII ₂ MV ₂ (acac) ₂ (OMe) ₁₂ , MII – – – – – Co, Ni, Zn or Mg and MV – – – – – Ta or Nb: A new class of heterometallic heteroleptic alkoxide complexes. Dalton Transactions RSC, 2001, , 574-579. | 2.3 | 28 |
| 216 | A convenient route to anionic and cyclic aluminosiloxanes: crystal structures of [PyH][– Al{OSiPh ₂ (OSiPh ₂) ₂ O} –] ₂ and the first twelve-membered organic aluminosilicate Al ₂ Si ₄ O ₆ ring. New Journal of Chemistry, 2001, 25, 528-530. | 1.4 | 30 |

| # | ARTICLE | IF | CITATIONS |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 217 | 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 |
| 218 | 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 |
| 219 | An approach to heterometallic alkoxide- β^2 -diketonate complexes with a M ₄ O ₄ cubane-like core and new prospects of their application in preparation of solid catalysts. X-ray single crystal study of (Co,Ni) ₄ (acac) ₄ (β^2 -3-OMe) ₄ (MeOH) ₄ , Co ₂ Ni ₂ (acac) ₄ (β^2 -3-OMe) ₄ (OAc) ₂ and Mg ₄ (acac) ₄ (β^2 -3-OMe) ₄ (MeOH) ₄ . <i>Polyhedron</i> , 2001, 20, 915-922. | 1.0 | 37 |
| 220 | Synthesis, characterization and molecular structures of homo- and heterometallic nickel(II) aminoalkoxides Ni(β^2 -ORN) ₂ and Ni(Ni _{0.25} Cu _{0.75}) ₂ (β^2 -3-OH)(β^2 -4-OAc)(β^2 -1-OAc) ₂ (β^2 -4, β^2 -2-ORN) ₂ (β^2 -2-RNOH) (RN=CHMeCH ₂ NMe ₂). <i>Polyhedron</i> , 2001, 20, 2163-2169. | 1.0 | 31 |
| 221 | Perrhenate ligand as an analog of the methoxide group in alkoxide complexes. Synthesis and X-ray single crystal study of Ta ₂ (OMe) ₈ (ReO ₄) ₂ . <i>Inorganic Chemistry Communication</i> , 2001, 4, 534-536. | 1.8 | 8 |
| 222 | The electrochemical synthesis and X-ray single crystal study of Re ₄ O ₆ (OiPr) ₁₀ – a new Rhenium(V, VI) cluster with an unprecedented arrangement of metal-metal bonds. <i>Inorganic Chemistry Communication</i> , 2001, 4, 227-229. | 1.8 | 15 |
| 223 | The mystery of VO(OEt) ₃ conversion on microhydrolysis disclosed: the X-ray single crystal study of V ₆ O ₇ (OEt) ₁₂ . <i>Inorganic Chemistry Communication</i> , 2000, 3, 203-204. | 1.8 | 35 |
| 224 | Molecular structure design based on Lewis acid-base interaction in the preparation of bimetallic alkoxides derived from two electronegative elements. The synthesis and X-ray single crystal study of Mo ₂ Ta ₄ O ₈ (OMe) ₁₆ and Mo ₄ Ta ₂ O ₈ (OiPr) ₁₄ . <i>Inorganic Chemistry Communication</i> , 2000, 3, 5-7. | 1.8 | 11 |
| 225 | Synthesis and X-ray single crystal study of the bi- and trimetallic alkoxides of molybdenum(VI) and tantalum, Mo ₂ Ta ₄ O ₈ (OMe) ₁₆ , Mo ₄ Ta ₄ O ₁₆ (OiPr) ₁₂ and LiMo ₄ Ta ₃ O ₁₄ (OiPr) ₉ (OC ₂ H ₄ OMe) ₃ . <i>Polyhedron</i> , 2000, 19, 1791-1798. | 1.0 | 15 |
| 226 | Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 19, 285-288. | 1.1 | 7 |
| 227 | Synthetic Approaches to Mixed-Metal Heteroleptic Derivatives of Late Transition Metals. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 19, 525-528. | 1.1 | 4 |
| 228 | Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 19, 725-728. | 1.1 | 4 |
| 229 | 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(VI). <i>Dalton Transactions RSC</i> , 2000, , 387-394. | 2.3 | 31 |
| 230 | Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 1998, 12, 81-85. | 1.1 | 8 |
| 231 | Title is missing!. <i>Journal of Sol-Gel Science and Technology</i> , 1998, 12, 111-115. | 1.1 | 2 |
| 232 | MoO(OiPr) ₄ decomposition pathways on ageing: spontaneous and nearly quantitative transformation into Mo ₆ O ₁₀ (OiPr) ₁₂ . <i>Polyhedron</i> , 1998, 17, 965-968. | 1.0 | 16 |
| 233 | Physicochemical approach to the studies of metal alkoxides. <i>Polyhedron</i> , 1998, 17, 899-915. | 1.0 | 40 |
| 234 | Synthesis, crystal and molecular structure of a new heterometallic oxo-2-methoxyethoxide, BaMo ₂ O ₅ (OC ₂ H ₄ OMe) ₄ (HOC ₂ H ₄ OMe). <i>Polyhedron</i> , 1998, 17, 4189-4193. | 1.0 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 235 | A new argument in favor of the ether elimination mechanism: formation of acetals on action of molybdenum alkoxides on carbonyl compounds. <i>Polyhedron</i> , 1998, 17, 2309-2311. | 1.0 | 28 |
| 236 | Anodic oxidation of molybdenum and tungsten in alcohols: isolation and X-ray single-crystal study of side products. <i>Journal of the Chemical Society Dalton Transactions</i> , 1998, , 21-30. | 1.1 | 26 |
| 237 | Solution stoichiometry control for pure LiLaMo2O8 phases in sol-gel preparation. <i>Journal of Sol-Gel Science and Technology</i> , 1997, 8, 1049-1051. | 1.1 | 2 |
| 238 | Soluble NiII alkoxides based on dimethylaminoisopropoxide ligands: molecular structure of [Li(PriOH)Ni(Î²-OR)2Cl]2 and of cis-NiCl2(ROH)2 (R = CHMeCH2NMe2). <i>Polyhedron</i> , 1997, 16, 4197-4203. | 1.0 | 22 |
| 239 | Synthesis, X-ray structure and thermal decomposition of lanthanum [dioxoisopropoxomolybdate] [La2Mo4O4(Î¼4-O)4(Î¼4-OPri)8(OPri)6]. <i>Polyhedron</i> , 1996, 15, 335-338. | 1.0 | 27 |
| 240 | 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 |
| 241 | Synthesis, crystal, molecular and electronic structure of a novel heterobinuclear alkoxide cluster [(MeO)2ReO(Âµ-OMe)3MoO(OMe)2]. <i>Journal of the Chemical Society Chemical Communications</i> , 1995, , 1779-1780. | 2.0 | 16 |
| 242 | Oxoalkoxides?True precursors of complex oxides. <i>Journal of Sol-Gel Science and Technology</i> , 1994, 2, 17-23. | 1.1 | 25 |
| 243 | The Alkoxides of Molybdenum, Tungsten and Vanadium and their Hydrolysis Products. <i>Materials Research Society Symposia Proceedings</i> , 1994, 346, 3. | 0.1 | 3 |
| 244 | Reactions of coordinated ligands: topological and stoichiometric control for mixed-metal alkoxides: synthesis and molecular structure of [La{(OC2H4)3N}2{Nb(OPri)4}3]. <i>Journal of the Chemical Society Chemical Communications</i> , 1994, , 705. | 2.0 | 38 |
| 245 | The synthesis, crystal and molecular structures of bimetallic ethoxides of barium and titanium, and calcium and titanium: [M{Ti2(Âµ3-OEt)2(Âµ-OEt)3(OEt)4}2] (M = Ca, Ba). <i>Journal of the Chemical Society Chemical Communications</i> , 1994, . | 2.0 | 22 |
| 246 | What are the Molecules of Which the Samples of Metal Alkoxides do Really Consist ?. <i>Materials Research Society Symposia Proceedings</i> , 1994, 346, 261. | 0.1 | 1 |
| 247 | Single-source Precursors for BaTiO3: Synthesis and Characterization of .beta.-Diketonato Alkoxides and Molecular Structure of Ba2Ti2(thd)4(.mu.3-OEt)2(.mu.-OEt)4(OEt)2(EtOH)2. <i>Chemistry of Materials</i> , 1994, 6, 2336-2342. | 3.2 | 46 |
| 248 | The synthesis and X-ray crystal structure of molybdenum oxomethoxide [MoO(OMe)4]2. <i>Polyhedron</i> , 1993, 12, 1573-1576. | 1.0 | 43 |
| 249 | Synthesis, crystal and molecular structure of calcium oxo ethoxide, [Ca6(Âµ4-O)2(Âµ3-OEt)4(OEt)4]Â·14EtOH. <i>Journal of the Chemical Society Chemical Communications</i> , 1993, , 21-23. | 2.0 | 50 |
| 250 | Application of metal alkoxides in the synthesis of oxides. <i>Integrated Ferroelectrics</i> , 1992, 1, 343-352. | 0.3 | 29 |
| 251 | Synthesis and crystal structure of the double bariumâ€“titanium isopropoxide [Ba4Ti4(Âµ4-O)4(Âµ3-OR)2(Âµ-OR)8(OR)6(ROH)4][Ba4Ti4(Âµ4-O)4(Âµ3-OR)2(Âµ-OR)9(OR)5(ROH)3]. <i>Journal of the Chemical Society Chemical Communications</i> , 1991, , 1605-1606. | 1.0 | 34 |
| 252 | Molybdenum(VI) Methoxyethoxides. Synthesis and Structure of MoO2(OC2H4OMe)2 and Polymeric NaMoO2(OC2H4OMe)3. <i>Mendeleev Communications</i> , 1991, 1, 89-91. | 0.6 | 10 |

| # | ARTICLE | IF | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 253 | Molybdenum and tungsten (VI) bimetallic alkoxides. Decomposition accompanied by dialkylether elimination. Polyhedron, 1991, 10, 2617-2628. | 1.0 | 84 |
| 254 | Hydrolysis of molybdenum and tungsten alkoxides: sols, powders and films. Journal of Non-Crystalline Solids, 1990, 124, 155-166. | 1.5 | 52 |