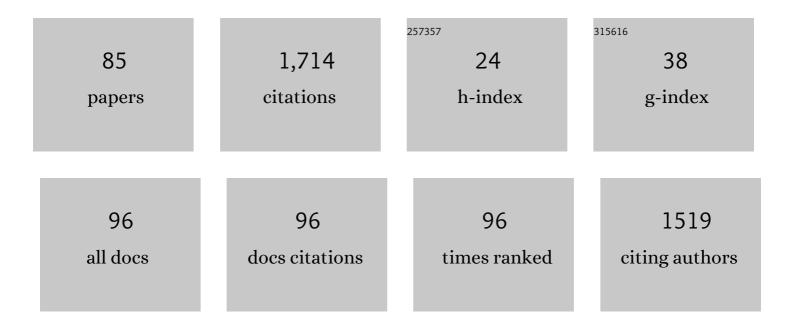
## Ragnar Kiebach

List of Publications by Year in descending order

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Testing of high performance asymmetric tubular BSCF membranes under pressurized operation – A proof-of-concept study on a 7 tube module. Journal of Membrane Science, 2022, 644, 120176.                | 4.1 | 9         |
| 2  | A review on dual-phase oxygen transport membranes: from fundamentals to commercial deployment.<br>Journal of Materials Chemistry A, 2022, 10, 2152-2195.  | 5.2 | 31        |
| 3  | Planar proton-conducting ceramic cells for hydrogen extraction: Mechanical properties,<br>electrochemical performance and up-scaling. International Journal of Hydrogen Energy, 2022, 47,<br>6745-6754. | 3.8 | 6         |
| 4  | Joining of Co coated ferritic stainless steel to ceramic solid oxide cells by a novel Ag-SiO2 braze.<br>Journal of Materials Science and Technology, 2022, 121, 174-180.                                | 5.6 | 1         |
| 5  | Fracture toughness of reactive bonded Co–Mn and Cu–Mn contact layers after long-term aging.<br>Ceramics International, 2022, 48, 20699-20711.   | 2.3 | 2         |
| 6  | Torsional behaviour of a glass-ceramic joined alumina coated Crofer 22 APU steel. Ceramics<br>International, 2022, 48, 25368-25373.   | 2.3 | 1         |
| 7  | Ag–SiO2 - An optimized braze for robust joining of commercial coated stainless steel to ceramic solid oxide cells. Ceramics International, 2022, 48, 32740-32747.                                       | 2.3 | 3         |
| 8  | Stable, asymmetric, tubular oxygen transport membranes of (Sc2O3)0.10(Y2O3)0.01(ZrO2)0.89 –<br>LaCr0.85Cu0.10Ni0.05O3-δ. Open Ceramics, 2022, 11, 100292.   | 1.0 | 0         |
| 9  | Fast relaxation of stresses in solid oxide cells through reduction. Part I: Macro-stresses in the cell<br>layers. International Journal of Hydrogen Energy, 2021, 46, 1548-1559.                        | 3.8 | 7         |
| 10 | High toughness well conducting contact layers for solid oxide cell stacks by reactive oxidative bonding. Journal of the European Ceramic Society, 2021, 41, 2699-2708.                                  | 2.8 | 3         |
| 11 | Tetragonal phase stability maps of ceria-yttria co-doped zirconia: From powders to sintered ceramics.<br>Ceramics International, 2020, 46, 9396-9405.   | 2.3 | 12        |
| 12 | Comparison of MnCo2O4 coated Crofer 22ÂH, 441, 430 as interconnects for intermediate-temperature solid oxide fuel cell stacks. Journal of Alloys and Compounds, 2020, 821, 153229.                      | 2.8 | 47        |
| 13 | Synthesis and characterization of a geopolymer/hexagonal‑boron nitride composite for free forming<br>3D extrusion-based printing. Applied Clay Science, 2020, 199, 105870.                              | 2.6 | 18        |
| 14 | SOFC stacks for mobile applications with excellent robustness towards thermal stresses.<br>International Journal of Hydrogen Energy, 2020, 45, 29201-29211.   | 3.8 | 31        |
| 15 | A novel Ag based sealant for solid oxide cells with a fully tunable thermal expansion. Journal of<br>Alloys and Compounds, 2020, 831, 154608.   | 2.8 | 19        |
| 16 | Promotion of oxygen reduction and evolution by applying a nanoengineered hybrid catalyst on cobalt<br>free electrodes for solid oxide cells. Journal of Materials Chemistry A, 2020, 8, 9039-9048.      | 5.2 | 22        |
| 17 | Enhancing the Robustness of Brittle Solid Oxide Cell Stack Components. ECS Transactions, 2019, 91, 2201-2211.   | 0.3 | 5         |
| 18 | Improved Robustness and Low Area Specific Resistance with Novel Contact Layers for the Solid Oxide<br>Cell Air Electrode. ECS Transactions, 2019, 91, 2225-2232.  | 0.3 | 4         |

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|----|--|-----|-----------|
| 19 | Gd0.2Ce0.8O1.9/Y0.16Zr0.84O1.92 nanocomposite thin films for low temperature ionic conductivity.<br>Journal of Physics and Chemistry of Solids, 2019, 132, 162-171.  | 1.9 | 5         |
| 20 | Improving the performance of oxygen transport membranes in simulated oxy-fuel power plant conditions by catalytic surface enhancement. Journal of Membrane Science, 2019, 580, 307-315.  | 4.1 | 9         |
| 21 | Improving the interface adherence at sealings in solid oxide cell stacks. Journal of Materials<br>Research, 2019, 34, 1167-1178.   | 1.2 | 12        |
| 22 | Impact of cation redox chemistry on continuous hydrothermal synthesis of 2D-Ni(Co/Fe) hydroxides.<br>Reaction Chemistry and Engineering, 2019, 4, 2060-2073.   | 1.9 | 3         |
| 23 | Printing of NiO-YSZ nanocomposites: From continuous synthesis to inkjet deposition. Journal of the European Ceramic Society, 2019, 39, 1279-1286.  | 2.8 | 9         |
| 24 | Enhancing the long-term stability of Ag based seals for solid oxide fuel/electrolysis applications by simple interconnect aluminization. International Journal of Hydrogen Energy, 2019, 44, 3063-3074.  | 3.8 | 15        |
| 25 | Zirconia nano-colloids transfer from continuous hydrothermal synthesis to inkjet printing. Journal of the European Ceramic Society, 2019, 39, 2-8.   | 2.8 | 17        |
| 26 | Performance and stability of (ZrO 2 ) 0.89 (Y 2 O 3 ) 0.01 (Sc 2 O 3 ) 0.10 -LaCr 0.85 Cu 0.10 Ni 0.05 O 3-δ<br>oxygen transport membranes under conditions relevant for oxy-fuel combustion. Journal of<br>Membrane Science, 2018, 552, 115-123.  | 4.1 | 17        |
| 27 | Continuous Hydrothermal Flow Synthesis of LaCrO <sub>3</sub> in Supercritical Water and Its<br>Application in Dual-Phase Oxygen Transport Membranes. Industrial & Engineering Chemistry<br>Research, 2018, 57, 2123-2130.  | 1.8 | 7         |
| 28 | A Baâ€free sealing glass with a high coefficient of thermal expansion and excellent interface stability optimized for SOFC/SOEC stack applications. International Journal of Applied Ceramic Technology, 2018, 15, 1011-1022.  | 1.1 | 27        |
| 29 | Continuous hydrothermal flow synthesis of Gdâ€doped CeO <sub>2</sub> ( <scp>GDC</scp> )<br>nanoparticles for inkjet printing of <scp>SOFC</scp> electrolytes. International Journal of Applied<br>Ceramic Technology, 2018, 15, 315-327.   | 1.1 | 12        |
| 30 | Effect of spherical porosity on co-fired dense/porous zirconia bi-layers cambering. Journal of the European Ceramic Society, 2018, 38, 173-179.  | 2.8 | 5         |
| 31 | Exploring the Processing of Tubular Chromite- and Zirconia-Based Oxygen Transport Membranes.<br>Ceramics, 2018, 1, 229-245.  | 1.0 | 5         |
| 32 | Continuous Hydrothermal Flow Synthesis of<br>Co <sub>1–<i>x</i></sub> Ni <i><sub>x</sub></i> Fe <sub>2</sub> O <sub>4</sub> ( <i>x</i> = 0–0.8)<br>Nanoparticles and Their Catalytic Properties for CO Oxidation and Oxygen Evolution Reaction.<br>Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2018, 644, 1727-1733. | 0.6 | 6         |
| 33 | Hydrothermal Synthesis, Characterization, and Sintering Behavior of Core-Shell Particles: A Principle<br>Study on Lanthanum Strontium Cobaltite Coated with Nanosized Gadolinium Doped Ceria. Ceramics,<br>2018, 1, 246-260.   | 1.0 | 3         |
| 34 | Joining of solid oxide fuel/electrolysis cells at low temperature: A novel method to obtain high strength seals already at 300â€ <sup>–</sup> ðC. Journal of Power Sources, 2018, 400, 296-304.  | 4.0 | 9         |
| 35 | Enhanced densification of thin tape cast Ceria-Gadolinium Oxide (CGO) layers by rheological optimization of slurries. Ceramics International, 2017, 43, 5647-5653.   | 2.3 | 15        |
| 36 | On the Properties and Long-Term Stability of Infiltrated Lanthanum Cobalt Nickelates (LCN) in Solid<br>Oxide Fuel Cell Cathodes. Journal of the Electrochemical Society, 2017, 164, F748-F758.   | 1.3 | 8         |

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|----|--|-----|-----------|
| 37 | In-situ formed Ce0.8Gd0.2O1.9 barrier layers on yttria stabilized zirconia backbones by infiltration - A promising path to high performing oxygen electrodes of solid oxide cells. Solid State Ionics, 2017, 304, 51-59.   | 1.3 | 10        |
| 38 | Investigation of a Spinelâ€forming Cuâ€Mn Foam as an Oxygen Electrode Contact Material in a Solid Oxide<br>Cell Single Repeating Unit. Fuel Cells, 2017, 17, 730-734.  | 1.5 | 17        |
| 39 | A Novel SOFC/SOEC Sealing Glass with a Low SiO <sub>2</sub> Content and a High Thermal Expansion Coefficient. ECS Transactions, 2017, 78, 1739-1747.   | 0.3 | 15        |
| 40 | Modeling of Ni Diffusion Induced Austenite Formation in Ferritic Stainless Steel Interconnects.<br>Journal of the Electrochemical Society, 2017, 164, F1005-F1010.   | 1.3 | 15        |
| 41 | Stability and performance of robust dual-phase (ZrO2)0.89(Y2O3)0.01(Sc2O3)0.10-Al0.02Zn0.98O1.01 oxygen transport membranes. Journal of Membrane Science, 2017, 543, 18-27.  | 4.1 | 12        |
| 42 | Simulation, design and proof-of-concept of a two-stage continuous hydrothermal flow synthesis reactor for synthesis of functionalized nano-sized inorganic composite materials. Journal of Supercritical Fluids, 2016, 117, 1-12.                                  | 1.6 | 25        |
| 43 | Oxygen permeation flux through 10Sc1YSZ-MnCo 2 O 4 asymmetric membranes prepared by two-step sintering. Fuel Processing Technology, 2016, 152, 192-199.  | 3.7 | 16        |
| 44 | Infiltration of SOFC Stacks: Evaluation ofÂthe Electrochemical Performance Enhancement and the<br>Underlying Changes in the Microstructure. Fuel Cells, 2016, 16, 80-88.   | 1.5 | 26        |
| 45 | An Ag based brazing system with a tunable thermal expansion for the use as sealant for solid oxide cells. Journal of Power Sources, 2016, 315, 339-350.  | 4.0 | 46        |
| 46 | Joining of ceramic Ba0.5Sr0.5Co0.8Fe0.2O3 membranes for oxygen production to high temperature alloys. Journal of Membrane Science, 2016, 506, 11-21.   | 4.1 | 23        |
| 47 | Poly(vinylpyrrolidone) as dispersing agent for cerium-gadolinium oxide (CGO) suspensions. Journal of<br>Materials Science, 2016, 51, 1098-1106.  | 1.7 | 11        |
| 48 | Influence of hydroxyl content of binders on rheological properties of cerium–gadolinium oxide<br>(CGO) screen printing inks. Journal of the European Ceramic Society, 2015, 35, 1495-1504.   | 2.8 | 31        |
| 49 | Stability of La 0.6 Sr 0.4 Co 0.2 Fe 0.8 O 3 /Ce 0.9 Gd 0.1 O 2 cathodes during sintering and solid oxide fuel cell operation. Journal of Power Sources, 2015, 283, 151-161.   | 4.0 | 77        |
| 50 | Colloidal stabilization of cerium-gadolinium oxide (CGO) suspensions via rheology. Journal of the European Ceramic Society, 2015, 35, 2823-2832.   | 2.8 | 6         |
| 51 | Modeling of Ni Diffusion Induced Austenite Formation in Ferritic Stainless Steel Interconnects. ECS Transactions, 2015, 68, 1691-1700.   | 0.3 | 5         |
| 52 | TOF-SIMS characterization of impurity enrichment and redistribution in solid oxide electrolysis cells during operation. Dalton Transactions, 2014, 43, 14949-14958.  | 1.6 | 13        |
| 53 | Infiltration of ionic-, electronic- and mixed-conducting nano particles into<br>La0.75Sr0.25MnO3–Y0.16Zr0.84O2 cathodes – A comparative study of performance enhancement and<br>stability atÂdifferent temperatures. Journal of Power Sources, 2013, 228, 170-177. | 4.0 | 46        |
| 54 | Characterization of impregnated GDC nano structures and their functionality in LSM based cathodes.<br>Solid State Ionics, 2012, 224, 21-31.  | 1.3 | 38        |

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|----|--|---------|--------------|
| 55 | Determination of redox-active centers in praseodymium doped ceria by in situ-XANES spectroscopy.<br>Chemical Physics Letters, 2012, 537, 80-83.  | 1.2     | 3            |
| 56 | Spectroelectrochemical cell forin situstudies of solid oxide fuel cells. Journal of Synchrotron Radiation, 2012, 19, 400-407.  | 1.0     | 20           |
| 57 | Investigation of Failure Mechanisms in Ti Containing Brazing Alloys Used in SOFC/SOEC Environments. , 2010, , .  |         | 1            |
| 58 | Photoluminescence from Si nanocrystals obtained by electrochemical methods embedded in a silicon oxide matrix. , 2009, , .   |         | 1            |
| 59 | [Fe(C <sub>6</sub> H <sub>14</sub> N <sub>2</sub> ) <sub>2</sub> ][Sb <sub>6</sub> S <sub>10</sub> ] –<br>Using a Transition Metal Complex Acting as a Pillar for the Generation of a Threeâ€dimensional<br>Thioantimonate(III) Network. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 988-994. | 0.6     | 26           |
| 60 | THE DEPOSITION AND CONTROL OF SELF ASSEMBLED SILICON NANO ISLANDS ON CRYSTALLINE SILICON. Selected Topics in Electornics and Systems, 2009, , 143-152.   | 0.2     | 0            |
| 61 | Tuning the Magnetic Properties of Li <sub><i>x</i></sub> CrTi <sub>0.25</sub> Se <sub>2</sub><br>(0.03≤i>xâ‰Ø.7) by Directed Deintercalation of Lithium. Chemistry - A European Journal, 2008, 14,<br>5021-5029.   | 1.7     | 8            |
| 62 | Controlling the Size and Density of Silicon Nanostructures by Incorporation of Nitrogen. Chemical Vapor Deposition, 2008, 14, 353-357.   | 1.4     | 1            |
| 63 | Room temperature quantum tunneling and Coulomb blockade in silicon-rich oxide. Physica E:<br>Low-Dimensional Systems and Nanostructures, 2008, 41, 264-268.  | 1.3     | 4            |
| 64 | Hydrothermal Formation of W/Mo-Oxides: A Multidisciplinary Study of Growth and Shape. Chemistry of Materials, 2008, 20, 3022-3033.   | 3.2     | 64           |
| 65 | THE DEPOSITION AND CONTROL OF SELF ASSEMBLED SILICON NANO ISLANDS ON CRYSTALLINE SILICON.<br>International Journal of High Speed Electronics and Systems, 2008, 18, 901-910.   | 0.3     | 2            |
| 66 | Room temperature current oscillations in naturally grown silicon nanocrystallites embedded in oxide films. Journal of Applied Physics, 2008, 103, 063706.  | 1.1     | 6            |
| 67 | [VIV15SbIII6O42]6–: An antimony analogue of the molecular magnet [V15As6O42(H2O)]6–. Dalton<br>Transactions, 2007, , 3221.   | 1.6     | 64           |
| 68 | Morphological and Kinetic Studies on Hexagonal Tungstates. Chemistry of Materials, 2007, 19, 185-197.  | 3.2     | 54           |
| 69 | Syntheses and X-ray Diffraction, Photochemical, and Optical Characterization of Cu2SixSn1-xS3(0.4) Tj ETQq1 1  | 0.78431 | 4 rgBT /Over |
| 70 | Synthesis of Thin Cr3Se4Films from Modulated Elemental Reactants via Two Amorphous Intermediates:Â<br>A Detailed Examination of the Reaction Mechanism. Inorganic Chemistry, 2006, 45, 2704-2712.  | 1.9     | 18           |
| 71 | Combined In Situ EDXRD/EXAFS Investigation of the Crystal Growth of [Co(C6H18N4)][Sb2S4] under<br>Solvothermal Conditions:A Two Different Reaction Pathways Leading to the Same Product. Chemistry<br>of Materials, 2006, 18, 1196-1205.   | 3.2     | 64           |
| 72 | [C6H21N4][Sb9S14O]: Solvothermal synthesis, crystal structure and characterization of the first<br>non-centrosymmetric open Sb–S–O framework containing the new [SbS2O] building unit. Journal of<br>Solid State Chemistry, 2006, 179, 3082-3086.  | 1.4     | 11           |

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|----|--|-----|-----------|
| 73 | A study of the reactivity of elemental Cr/Se/Te thin multilayers using X-ray reflectometry, in situ X-ray diffraction and X-ray absorption spectroscopy. Journal of Solid State Chemistry, 2006, 179, 3330-3337.   | 1.4 | 6         |
| 74 | [C3H10NO]2[Sb4S7]: Solvothermal syntheses, crystal structures and properties of the first thioantimonates containing aminoalcohols as structure directors. Solid State Sciences, 2006, 8, 541-547.   | 1.5 | 13        |
| 75 | [C6H17N3]4[Sb4V16O42]â‹2H2O and [NH4]4[Sb8V14O42]â‹2H2O— the first isolated Sb derivates of the [V18O42] family. Solid State Sciences, 2006, 8, 964-970.   | 1.5 | 60        |
| 76 | The structure directing effect of organic cations onto the crystal structures of layered thioantimonates(III): Solvothermal synthesis and crystal structures of five new compounds containing the 2â^ž[Sb8S13]2â^' anion. Solid State Sciences, 2006, 8, 1085-1097.  | 1.5 | 19        |
| 77 | The Reaction Mechanism of a Complex Intercalation System: In Situ X-ray Diffraction Studies of the<br>Chemical and Electrochemical Lithium Intercalation in Cr4TiSe8. Chemistry - A European Journal, 2006,<br>12, 6348-6355.  | 1.7 | 19        |
| 78 | Studying the Solvothermal Formation of MoO3 Fibers by Complementary In Situ EXAFS/EDXRD Techniques. Angewandte Chemie - International Edition, 2005, 44, 5643-5647.  | 7.2 | 100       |
| 79 | Four New Thioantimonates(III) with the General Formula [TM(ten)]Sb4S7 (TM: Mn, Fe, Co, Zn) with the<br>Transition Metal as Part of a Thioantimonate(III) Network Synthesized under Solvothermal Conditions<br>and Tuning of the Optical Band Gap by the Transition Metal Cation ChemInform, 2005, 36, no.  | 0.1 | 0         |
| 80 | In-situ Energy Dispersive X-ray Diffraction Studies of the Crystallization of (1, 2-DAPH2)2Ge9(OH)4O18 تزاء⁄2<br>2 H2O under Solvothermal Conditions. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2005, 631,<br>369-374.   | 0.6 | 31        |
| 81 | Four New Thioantimonates(III) with the General Formula [TM(tren)]Sb4S7 (TM = Mn, Fe, Co, Zn) with the Transition Metal as Part of a Thioantimonate(III) Network Synthesized under Solvothermal Conditions and Tuning of the Optical Band Gap by the Transition Metal Cation. Zeitschrift Fur Anorganische Und Allgemeine Chemie. 2004. 630. 1816-1822. | 0.6 | 81        |
| 82 | Two Novel Thioantimonates(III) with the Same Stoichiometric Sb:S Ratio but Different Crystal<br>Structures: Solvothermal Synthesis, Crystal Structures, Thermal Stability and Spectroscopy of<br>(C6N3H17)Sb6S10 and (C7N2H13)3Sb9S15. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2004, 630,<br>2398-2404.                                    | 0.6 | 31        |
| 83 | [Ni(C4H13N3)2]3(Sb3S6)2: The First Structure Containing Isolated Heterocyclic [Sb3S6]3â^ Anions.<br>European Journal of Inorganic Chemistry, 2004, 2004, 2553-2556.  | 1.0 | 52        |
| 84 | [Ni(C4H13N3)2]3(Sb3S6)2: The First Structure Containing Isolated Heterocyclic [Sb3S6]3- Anions<br>ChemInform, 2004, 35, no.  | 0.1 | 0         |
| 85 | Solvothermal Synthesis and Characterization of the New Iron Thioantimonates(III)<br>[Fe(C6H18N4)]FeSbS4 and [Fe(C4H13N3)2] Fe2Sb4S10 Containing Fell and Felll and Protein-Analogous<br>[2FeIII-2S]2+ Clusters ChemInform, 2003, 34, no.   | 0.1 | 0         |