

# Yoji Kobayashi

## List of Publications by Citations

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|-------------------|-------------------------|----------------|-----------------|
| 88<br>papers      | 3,594<br>citations      | 34<br>h-index  | 58<br>g-index   |
| 97<br>ext. papers | 4,016<br>ext. citations | 8.1<br>avg, IF | 5.08<br>L-index |

| #  | Paper  | IF    | Citations |
|----|--|-------|-----------|
| 88 | Conductivity, Doping, and Redox Chemistry of a Microporous Dithiolene-Based MetalOrganic Framework. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 4120-4122                                  | 9.6   | 403       |
| 87 | High energy density rechargeable magnesium battery using earth-abundant and non-toxic elements. <i>Scientific Reports</i> , <b>2014</b> , 4, 5622  | 4.9   | 230       |
| 86 | An oxyhydride of BaTiO <sub>3</sub> exhibiting hydride exchange and electronic conductivity. <i>Nature Materials</i> , <b>2012</b> , 11, 507-11  | 27    | 205       |
| 85 | High-Level Doping of Nitrogen, Phosphorus, and Sulfur into Activated Carbon Monoliths and Their Electrochemical Capacitances. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 4703-4712        | 9.6   | 174       |
| 84 | Titanium-Based Hydrides as Heterogeneous Catalysts for Ammonia Synthesis. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 18240-18246                                       | 16.4  | 122       |
| 83 | Direct deposition of trivalent rhodium hydroxide nanoparticles onto a semiconducting layered calcium niobate for photocatalytic hydrogen evolution. <i>Nano Letters</i> , <b>2008</b> , 8, 794-9 | 11.5  | 120       |
| 82 | Scrolled Sheet Precursor Route to Niobium and Tantalum Oxide Nanotubes. <i>Nano Letters</i> , <b>2007</b> , 7, 2142-2145   | 21.45 | 108       |
| 81 | Ion-exchangeable, electronically conducting layered perovskite oxyfluorides. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 9849-55  | 16.4  | 92        |
| 80 | Selective preparation of macroporous monoliths of conductive titanium oxides Ti(n)O(2n-1) (n = 2, 3, 4, 6). <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 10894-8         | 16.4  | 88        |
| 79 | A labile hydride strategy for the synthesis of heavily nitridized BaTiO <sub>3</sub> . <i>Nature Chemistry</i> , <b>2015</b> , 7, 1017-23  | 23.6  | 87        |
| 78 | Epitaxial thin films of ATiO(3-x)H(x) (A = Ba, Sr, Ca) with metallic conductivity. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 8782-5                                   | 16.4  | 79        |
| 77 | Superconductivity in BaTi <sub>2</sub> Sb <sub>2</sub> O with ad1Square Lattice. <i>Journal of the Physical Society of Japan</i> , <b>2012</b> , 81, 103706                                      | 1.5   | 75        |
| 76 | Synthesis of carbon nanotubes on Ni/carbon-fiber catalysts under mild conditions. <i>Carbon</i> , <b>2004</b> , 42, 727-736  | 10.4  | 74        |
| 75 | Direct synthesis of chromium perovskite oxyhydride with a high magnetic-transition temperature. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 10377-80                    | 16.4  | 72        |
| 74 | Soft Chemical Conversion of Layered Double Hydroxides to Superparamagnetic Spinel Platelets. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 2374-2381   | 9.6   | 69        |
| 73 | Oxyhydrides of (Ca,Sr,Ba)TiO <sub>3</sub> perovskite solid solutions. <i>Inorganic Chemistry</i> , <b>2012</b> , 51, 11371-6   | 5.1   | 65        |
| 72 | Metal-Dependent Support Effects of Oxyhydride-Supported Ru, Fe, Co Catalysts for Ammonia Synthesis. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1801772                                  | 21.8  | 65        |

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|----|---|------|----|
| 71 | MgFePO <sub>4</sub> F as a feasible cathode material for magnesium batteries. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 11578-11582  | 13   | 59 |
| 70 | Hydride in BaTiO <sub>2.5</sub> H <sub>0.5</sub> : A Labile Ligand in Solid State Chemistry. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 15315-21  | 16.4 | 54 |
| 69 | Intercalation of well-dispersed gold nanoparticles into layered oxide nanosheets through intercalation of a polyamine. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 3064-5  | 16.4 | 54 |
| 68 | Electrochemical characterization of single-layer MnO <sub>2</sub> nanosheets as a high-capacitance pseudocapacitor electrode. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14691   |      | 46 |
| 67 | Potassium niobate nanoscrolls incorporating rhodium hydroxide nanoparticles for photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 5982   |      | 46 |
| 66 | Hierarchically Porous Monoliths Based on N-Doped Reduced Titanium Oxides and Their Electric and Electrochemical Properties. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 3504-3512   | 9.6  | 45 |
| 65 | Relationship between Phase Transition Involving Cationic Exchange and Charge Discharge Rate in Li <sub>2</sub> FeSiO <sub>4</sub> . <i>Chemistry of Materials</i> , <b>2014</b> , 26, 1380-1384   | 9.6  | 44 |
| 64 | Crystal Structural Changes and Charge Compensation Mechanism during Two Lithium Extraction/Insertion between Li <sub>2</sub> FeSiO <sub>4</sub> and FeSiO <sub>4</sub> . <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 10206-10211        | 9.8  | 43 |
| 63 | Chemical Pressure-Induced Anion Order-Disorder Transition in LnHO Enabled by Hydride Size Flexibility. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 11170-11173   | 16.4 | 43 |
| 62 | An antiferro-to-ferromagnetic transition in EuTiO <sub>3-x</sub> H <sub>x</sub> induced by hydride substitution. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 1501-7  | 5.1  | 43 |
| 61 | Impact of Electrolyte on Pseudocapacitance and Stability of Porous Titanium Nitride (TiN) Monolithic Electrode. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, A77-A85  | 3.9  | 42 |
| 60 | Fe-site substitution effect on the structural and magnetic properties in SrFeO <sub>2</sub> . <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 3988-95  | 5.1  | 42 |
| 59 | Electrical Properties of Epitaxial Thin Films of Oxyhydrides ATiO <sub>3-x</sub> H <sub>x</sub> (A = Ba and Sr). <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6354-6359  | 9.6  | 37 |
| 58 | Topochemical Nitridation with Anion Vacancy-Assisted N(3-)/O(2-) Exchange. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 3211-7  | 16.4 | 37 |
| 57 | Encapsulation of Anionic Dye Molecules by a Swelling Fluoromica through Intercalation of Cationic Polyelectrolytes. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 79-87   | 9.6  | 37 |
| 56 | Synthesis and Physical Properties of the New Oxybismuthides BaTi <sub>2</sub> Bi <sub>2</sub> O and (SrF) <sub>2</sub> Ti <sub>2</sub> Bi <sub>2</sub> O with ad1Square Net. <i>Journal of the Physical Society of Japan</i> , <b>2013</b> , 82, 013703 | 1.5  | 36 |
| 55 | Two Superconducting Phases in the Isovalent Solid Solutions BaTi <sub>2</sub> Pn <sub>2</sub> O (Pn= As, Sb, and Bi). <i>Journal of the Physical Society of Japan</i> , <b>2013</b> , 82, 033705  | 1.5  | 36 |
| 54 | Sr <sub>2</sub> FeO <sub>3</sub> with stacked infinite chains of FeO <sub>4</sub> square planes. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 6096-102  | 5.1  | 33 |

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|----|---|------|----|
| 53 | Structural Effects in the Protonic/Electronic Conductivity of Dion-Jacobson Phase Niobate and Tantalate Layered Perovskites. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 3185-3191  | 3.8  | 32 |
| 52 | Property Engineering in Perovskites via Modification of Anion Chemistry. <i>Annual Review of Materials Research</i> , <b>2018</b> , 48, 303-326   | 12.8 | 31 |
| 51 | A Nearly Ideal One-Dimensional $S = 5/2$ Antiferromagnet $\text{FeF}_3(4,4'\text{-bpy})$ ( $4,4'\text{-bpy} = 4,4'\text{-bipyridyl}$ ) with Strong Intrachain Interactions. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 9804-7 | 16.4 | 28 |
| 50 | $(\text{Sr}(1-x)\text{Ba}(x))\text{FeO}_2$ ( $0.4 \leq x \leq 1$ ): a new oxygen-deficient perovskite structure. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 11444-54  | 16.4 | 28 |
| 49 | Pressure-induced structural, magnetic, and transport transitions in the two-legged ladder $\text{Sr}_3\text{Fe}_2\text{O}_5$ . <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 6036-43   | 16.4 | 27 |
| 48 | Pressure-Stabilized Cubic Perovskite Oxyhydride $\text{BaScOH}$ . <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 4840-4845  | 5.1  | 26 |
| 47 | New chemistry of transition metal oxyhydrides. <i>Science and Technology of Advanced Materials</i> , <b>2017</b> , 18, 905-918  | 7.1  | 24 |
| 46 | High-Pressure Synthesis of Manganese Oxyhydride with Partial Anion Order. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 9667-70  | 16.4 | 23 |
| 45 | Synthesis and thermal stability of the solid solution $\text{AFeO}_2$ ( $A = \text{Ba}, \text{Sr}, \text{Ca}$ ). <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 5957-62   | 5.1  | 23 |
| 44 | $\text{ZnTaON}$ : Stabilized High-Temperature $\text{LiNbO}_3$ -type Structure. <i>Journal of the American Chemical Society</i> , <b>2016</b> , 138, 15950-15955  | 16.4 | 22 |
| 43 | $\text{MnTaO}_2\text{N}$ : polar $\text{LiNbO}_3$ -type oxynitride with a helical spin order. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 516-21   | 16.4 | 22 |
| 42 | Exploring Structures and Properties through Anion Chemistry. <i>Bulletin of the Chemical Society of Japan</i> , <b>2019</b> , 92, 1349-1357   | 5.1  | 21 |
| 41 | $\text{LaPd}_2\text{Sb}_2$ : A pnictide superconductor with $\text{CaBe}_2\text{Ge}_2$ type structure. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 583, 151-154  | 5.7  | 20 |
| 40 | On Hydride Diffusion in Transition Metal Perovskite Oxyhydrides Investigated via Deuterium Exchange. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 8187-8194  | 9.6  | 20 |
| 39 | Proton-Conducting Films of Nanoscale Ribbons Formed by Exfoliation of the Layer Perovskite $\text{H}_2\text{SrTa}_2\text{O}_7$ . <i>Chemistry of Materials</i> , <b>2008</b> , 20, 213-219  | 9.6  | 19 |
| 38 | pH-Dependent Intercalation of Gold Nanoparticles into a Synthetic Fluoromica Modified with Poly(Allylamine). <i>Chemistry of Materials</i> , <b>2007</b> , 19, 6588-6596  | 9.6  | 19 |
| 37 | Substrate-induced anion rearrangement in epitaxial thin films of $\text{LaSrCoO}_{4-x}\text{H}_x$ . <i>CrystEngComm</i> , <b>2014</b> , 16, 9669-9674   | 3.3  | 17 |
| 36 | Direct Synthesis of Chromium Perovskite Oxyhydride with a High Magnetic-Transition Temperature. <i>Angewandte Chemie</i> , <b>2014</b> , 126, 10545-10548   | 3.6  | 17 |

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|----|---|------|----|
| 35 | Remarkable Oxygen Intake/Release of BaYMn <sub>2</sub> O <sub>5</sub> Viewed from High-Temperature Crystal Structure. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 2356-2363                                   | 3.8  | 16 |
| 34 | Low temperature solventless synthesis and characterization of Ni and Fe magnetic nanoparticles. <i>Chemical Communications</i> , <b>2012</b> , 48, 8237-9   | 5.8  | 16 |
| 33 | Highly Reduced Anatase TiO <sub>2</sub> -Thin Films Obtained via Low-Temperature Reduction. <i>Applied Physics Express</i> , <b>2011</b> , 4, 035801  | 2.4  | 16 |
| 32 | Gas phase contributions to topochemical hydride reduction reactions. <i>Journal of Solid State Chemistry</i> , <b>2013</b> , 207, 190-193   | 3.3  | 15 |
| 31 | Hydride-Enhanced CO <sub>2</sub> Methanation: Water-Stable BaTiO <sub>2.4</sub> H <sub>0.6</sub> as a New Support. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800800  | 21.8 | 15 |
| 30 | Promoted Hydride/Oxide Exchange in SrTiO by Introduction of Anion Vacancy via Aliovalent Cation Substitution. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 13035-13040  | 5.1  | 13 |
| 29 | B1-to-B2 structural transitions in rock salt intergrowth structures. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 11787-941   | 3.1  | 12 |
| 28 | Cubic lead perovskite PbMoO <sub>3</sub> with anomalous metallic behavior. <i>Physical Review B</i> , <b>2017</b> , 95,   | 3.3  | 10 |
| 27 | Effect of calcination conditions on porous reduced titanium oxides and oxynitrides via a preceramic polymer route. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 2802-8  | 5.1  | 10 |
| 26 | Superconductivity in LaPd <sub>2</sub> As <sub>2</sub> with a collapsed 122 structure. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 613, 370-374  | 5.7  | 10 |
| 25 | High-Pressure Synthesis of Manganese Oxyhydride with Partial Anion Order. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 9819-9822   | 3.6  | 10 |
| 24 | Local structural change in Li <sub>2</sub> FeSiO <sub>4</sub> polyanion cathode material during initial cycling. <i>Solid State Ionics</i> , <b>2014</b> , 262, 110-114   | 3.3  | 9  |
| 23 | Hierarchically porous monoliths of oxygen-deficient anatase TiO <sub>2-x</sub> with electronic conductivity. <i>RSC Advances</i> , <b>2013</b> , 3, 7205  | 3.7  | 9  |
| 22 | MnTaO <sub>2</sub> N: Polar LiNbO <sub>3</sub> -type Oxynitride with a Helical Spin Order. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 526-531  | 5.31 | 9  |
| 21 | Impact of Lanthanoid Substitution on the Structural and Physical Properties of an Infinite-Layer Iron Oxide. <i>Inorganic Chemistry</i> , <b>2016</b> , 55, 12093-12099   | 5.1  | 8  |
| 20 | CaH <sub>2</sub> -assisted low temperature synthesis of metallic magnetic nanoparticle-loaded multiwalled carbon nanotubes. <i>Chemical Communications</i> , <b>2014</b> , 50, 6866-8   | 5.8  | 8  |
| 19 | Illustrating Catalysis with Interlocking Building Blocks: Correlation between Structure of a Metallocene Catalyst and the Stereoregularity of Polypropylene. <i>Journal of Chemical Education</i> , <b>2013</b> , 90, 620-622 | 2.4  | 8  |
| 18 | Vanadium Hydride as an Ammonia Synthesis Catalyst. <i>ChemCatChem</i> , <b>2021</b> , 13, 191-195   | 5.2  | 8  |

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|----|---|------|---|
| 17 | Charge Disproportionation and Magnetoresistivity in a Double Perovskite with Alternate Fe <sup>4+</sup> (d <sup>4</sup> ) and Mn <sup>4+</sup> (d <sup>3</sup> ) Layers. <i>European Journal of Inorganic Chemistry</i> , <b>2014</b> , 2014, 2576-2581 | 2.3  | 7 |
| 16 | Illustrating Catalysis with Interlocking Building Blocks: A Ruthenium Carbene Complex for Olefin Metathesis Reactions. <i>Journal of Chemical Education</i> , <b>2014</b> , 91, 255-258   | 2.4  | 7 |
| 15 | Selective and low temperature transition metal intercalation in layered tellurides. <i>Nature Communications</i> , <b>2016</b> , 7, 13809   | 17.4 | 7 |
| 14 | Electronic Origin of Catalytic Activity of TiH <sub>2</sub> for Ammonia Synthesis. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 3948-3960  | 3.8  | 7 |
| 13 | Superconductivity in the Hypervalent Compound Ba <sub>2</sub> Bi(Sb <sub>1-x</sub> Bi <sub>x</sub> ) <sub>2</sub> with a Square-Honeycomb Lattice. <i>Journal of the Physical Society of Japan</i> , <b>2014</b> , 83, 073705                           | 1.5  | 6 |
| 12 | Simultaneous Quantification of Hydride Ions and Electrons Incorporated in 12CaO $\cdot$ 7Al <sub>2</sub> O <sub>3</sub> Cages by Deuterium-Labeled Volumetric Analysis. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 8747-8752           | 3.8  | 6 |
| 11 | Site Selectivity of Hydride in Early-Transition-Metal Ruddlesden-Popper Oxyhydrides. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 11058-11067   | 5.1  | 5 |
| 10 | Suppression of H <sub>2</sub> O <sub>2</sub> Exchange by incorporated nitride anions in the perovskite lattice. <i>Journal of Solid State Chemistry</i> , <b>2017</b> , 256, 33-37  | 3.3  | 5 |
| 9  | Formation of Hydrogen through the Decomposition of Kerosene over Nickel-Based Catalysts. <i>Energy &amp; Fuels</i> , <b>2004</b> , 18, 1775-1783  | 4.1  | 4 |
| 8  | Dehydration of Electrochemically Protonated Oxide: SrCoO with Square Spin Tubes. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 17517-17525   | 16.4 | 4 |
| 7  | Pressure-Induced Collapse Transition in BaTiPnO (Pn = As, Sb) with an Unusual Pn-Pn Bond Elongation. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 2228-2233   | 5.1  | 3 |
| 6  | Illustrating the Basic Functioning of Mass Analyzers in Mass Spectrometers with Ball-Rolling Mechanisms. <i>Journal of Chemical Education</i> , <b>2017</b> , 94, 1502-1506   | 2.4  | 2 |
| 5  | A Scrolled Sheet Precursor Route to Niobium Oxide Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 988, 1  |      | 2 |
| 4  | Interlayer Charge Conversion Through Intercalation of Polycations into a Synthetic Swelling Mica. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 988, 1   |      | 1 |
| 3  | Design of a structure model set for inorganic compounds based on ping-pong balls linked with snap buttons. <i>Chemistry Teacher International</i> , <b>2021</b> , 3, 295-301  | 1    | 1 |
| 2  | Exploring the Gas Chemistry of Old Submarine Technologies Using Plastic Bottles as Reaction Vessels and Models. <i>Journal of Chemical Education</i> , <b>2016</b> , 93, 1411-1414  | 2.4  | 0 |
| 1  | High Pressure Synthesis of Hydride-fluoride Pyrochlore NaCaMg <sub>2</sub> F <sub>7-x</sub> H <sub>x</sub> . <i>Chemistry Letters</i> , <b>2018</b> , 47, 829-832   | 1.7  |   |