Yoji Kobayashi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88
papers

3,594
citations

4,016
ext. papers

4,016
ext. citations

34
papers

4,016
ext. citations

8.1
avg, IF

5.08
L-index

#	Paper	IF	Citations
88	Dehydration of Electrochemically Protonated Oxide: SrCoO with Square Spin Tubes. <i>Journal of the American Chemical Society</i> , 2021 , 143, 17517-17525	16.4	4
87	Design of a structure model set for inorganic compounds based on ping-pong balls linked with snap buttons. <i>Chemistry Teacher International</i> , 2021 , 3, 295-301	1	1
86	Vanadium Hydride as an Ammonia Synthesis Catalyst. <i>ChemCatChem</i> , 2021 , 13, 191-195	5.2	8
85	Electronic Origin of Catalytic Activity of TiH2 for Ammonia Synthesis. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 3948-3960	3.8	7
84	Pressure-Induced Collapse Transition in BaTiPnO (Pn = As, Sb) with an Unusual Pn-Pn Bond Elongation. <i>Inorganic Chemistry</i> , 2021 , 60, 2228-2233	5.1	3
83	Exploring Structures and Properties through Anion Chemistry. <i>Bulletin of the Chemical Society of Japan</i> , 2019 , 92, 1349-1357	5.1	21
82	Property Engineering in Perovskites via Modification of Anion Chemistry. <i>Annual Review of Materials Research</i> , 2018 , 48, 303-326	12.8	31
81	High Pressure Synthesis of Hydride-fluoride Pyrochlore NaCaMg2F7⊠Hx. <i>Chemistry Letters</i> , 2018 , 47, 829-832	1.7	
80	Site Selectivity of Hydride in Early-Transition-Metal Ruddlesden-Popper Oxyhydrides. <i>Inorganic Chemistry</i> , 2018 , 57, 11058-11067	5.1	5
79	Chemical Pressure-Induced Anion Order-Disorder Transition in LnHO Enabled by Hydride Size Flexibility. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11170-11173	16.4	43
78	Metal-Dependent Support Effects of Oxyhydride-Supported Ru, Fe, Co Catalysts for Ammonia Synthesis. <i>Advanced Energy Materials</i> , 2018 , 8, 1801772	21.8	65
77	Hydride-Enhanced CO2 Methanation: Water-Stable BaTiO2.4H0.6 as a New Support. <i>Advanced Energy Materials</i> , 2018 , 8, 1800800	21.8	15
76	Pressure-Stabilized Cubic Perovskite Oxyhydride BaScOH. <i>Inorganic Chemistry</i> , 2017 , 56, 4840-4845	5.1	26
75	Promoted Hydride/Oxide Exchange in SrTiO by Introduction of Anion Vacancy via Aliovalent Cation Substitution. <i>Inorganic Chemistry</i> , 2017 , 56, 13035-13040	5.1	13
74	Illustrating the Basic Functioning of Mass Analyzers in Mass Spectrometers with Ball-Rolling Mechanisms. <i>Journal of Chemical Education</i> , 2017 , 94, 1502-1506	2.4	2
73	Suppression of HIDO2Dexchange by incorporated nitride anions in the perovskite lattice. <i>Journal of Solid State Chemistry</i> , 2017 , 256, 33-37	3.3	5
72	On Hydride Diffusion in Transition Metal Perovskite Oxyhydrides Investigated via Deuterium Exchange. <i>Chemistry of Materials</i> , 2017 , 29, 8187-8194	9.6	20

(2015-2017)

71	Titanium-Based Hydrides as Heterogeneous Catalysts for Ammonia Synthesis. <i>Journal of the American Chemical Society</i> , 2017 , 139, 18240-18246	16.4	122
70	Cubic lead perovskite PbMoO3 with anomalous metallic behavior. <i>Physical Review B</i> , 2017 , 95,	3.3	10
69	New chemistry of transition metal oxyhydrides. <i>Science and Technology of Advanced Materials</i> , 2017 , 18, 905-918	7.1	24
68	ZnTaON: Stabilized High-Temperature LiNbO-type Structure. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15950-15955	16.4	22
67	High-Pressure Synthesis of Manganese Oxyhydride with Partial Anion Order. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 9667-70	16.4	23
66	Impact of Lanthanoid Substitution on the Structural and Physical Properties of an Infinite-Layer Iron Oxide. <i>Inorganic Chemistry</i> , 2016 , 55, 12093-12099	5.1	8
65	Topochemical Nitridation with Anion Vacancy-Assisted N(3-)/O(2-) Exchange. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3211-7	16.4	37
64	Selective and low temperature transition metal intercalation in layered tellurides. <i>Nature Communications</i> , 2016 , 7, 13809	17.4	7
63	Exploring the Gas Chemistry of Old Submarine Technologies Using Plastic Bottles as Reaction Vessels and Models. <i>Journal of Chemical Education</i> , 2016 , 93, 1411-1414	2.4	0
62	High-Pressure Synthesis of Manganese Oxyhydride with Partial Anion Order. <i>Angewandte Chemie</i> , 2016 , 128, 9819-9822	3.6	10
61	Remarkable Oxygen Intake/Release of BaYMn2O5+Viewed from High-Temperature Crystal Structure. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 2356-2363	3.8	16
60	A Nearly Ideal One-Dimensional S = 5/2 Antiferromagnet FeF3(4,4Qbpy) (4,4Qbpy =4,4Qbipyridyl) with Strong Intrachain Interactions. <i>Journal of the American Chemical Society</i> , 2015 , 137, 9804-7	16.4	28
59	High-Level Doping of Nitrogen, Phosphorus, and Sulfur into Activated Carbon Monoliths and Their Electrochemical Capacitances. <i>Chemistry of Materials</i> , 2015 , 27, 4703-4712	9.6	174
58	Crystal Structural Changes and Charge Compensation Mechanism during Two Lithium Extraction/Insertion between Li2FeSiO4 and FeSiO4. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10206-	102211	43
57	A labile hydride strategy for the synthesis of heavily nitridized BaTiO3. <i>Nature Chemistry</i> , 2015 , 7, 1017-	23 7.6	87
56	Electrical Properties of Epitaxial Thin Films of Oxyhydrides ATiO3 $\mbox{$\mathbb{N}$}$ Hx (A = Ba and Sr). <i>Chemistry of Materials</i> , 2015 , 27, 6354-6359	9.6	37
55	Impact of Electrolyte on Pseudocapacitance and Stability of Porous Titanium Nitride (TiN) Monolithic Electrode. <i>Journal of the Electrochemical Society</i> , 2015 , 162, A77-A85	3.9	42
54	MnTaO2N: polar LiNbO3-type oxynitride with a helical spin order. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 516-21	16.4	22

53	MnTaO2N: Polar LiNbO3-type Oxynitride with a Helical Spin Order. <i>Angewandte Chemie</i> , 2015 , 127, 526	5-5,361	9
52	Effect of calcination conditions on porous reduced titanium oxides and oxynitrides via a preceramic polymer route. <i>Inorganic Chemistry</i> , 2015 , 54, 2802-8	5.1	10
51	Hydride in BaTiO2.5H0.5: A Labile Ligand in Solid State Chemistry. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15315-21	16.4	54
50	An antiferro-to-ferromagnetic transition in EuTiO(3-x)H(x) induced by hydride substitution. <i>Inorganic Chemistry</i> , 2015 , 54, 1501-7	5.1	43
49	High energy density rechargeable magnesium battery using earth-abundant and non-toxic elements. <i>Scientific Reports</i> , 2014 , 4, 5622	4.9	230
48	Charge Disproportionation and Magnetoresistivity in a Double Perovskite with Alternate Fe4+(d4) and Mn4+(d3) Layers. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 2576-2581	2.3	7
47	Illustrating Catalysis with Interlocking Building Blocks: A Ruthenium Carbene Complex for Olefin Metathesis Reactions. <i>Journal of Chemical Education</i> , 2014 , 91, 255-258	2.4	7
46	LaPd2Sb2: A pnictide superconductor with CaBe2Ge2 type structure. <i>Journal of Alloys and Compounds</i> , 2014 , 583, 151-154	5.7	20
45	Substrate-induced anion rearrangement in epitaxial thin films of LaSrCoO4⊠Hx. <i>CrystEngComm</i> , 2014 , 16, 9669-9674	3.3	17
44	CaH2-assisted low temperature synthesis of metallic magnetic nanoparticle-loaded multiwalled carbon nanotubes. <i>Chemical Communications</i> , 2014 , 50, 6866-8	5.8	8
43	Superconductivity in the Hypervalent Compound Ba2Bi(Sb1⊠Bix)2 with a Square-Honeycomb Lattice. <i>Journal of the Physical Society of Japan</i> , 2014 , 83, 073705	1.5	6
42	Relationship between Phase Transition Involving Cationic Exchange and ChargeDischarge Rate in Li2FeSiO4. <i>Chemistry of Materials</i> , 2014 , 26, 1380-1384	9.6	44
41	MgFePO4F as a feasible cathode material for magnesium batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11578-11582	13	59
40	Local structural change in Li2FeSiO4 polyanion cathode material during initial cycling. <i>Solid State Ionics</i> , 2014 , 262, 110-114	3.3	9
39	Direct synthesis of chromium perovskite oxyhydride with a high magnetic-transition temperature. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 10377-80	16.4	72
38	Direct Synthesis of Chromium Perovskite Oxyhydride with a High Magnetic-Transition Temperature. <i>Angewandte Chemie</i> , 2014 , 126, 10545-10548	3.6	17
37	Superconductivity in LaPd2As2 with a collapsed 122 structure. <i>Journal of Alloys and Compounds</i> , 2014 , 613, 370-374	5.7	10
36	Hierarchically Porous Monoliths Based on N-Doped Reduced Titanium Oxides and Their Electric and Electrochemical Properties. <i>Chemistry of Materials</i> , 2013 , 25, 3504-3512	9.6	45

(2011-2013)

35	Synthesis and Physical Properties of the New Oxybismuthides BaTi2Bi2O and (SrF)2Ti2Bi2O with ad1Square Net. <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 013703	1.5	36
34	Gas phase contributions to topochemical hydride reduction reactions. <i>Journal of Solid State Chemistry</i> , 2013 , 207, 190-193	3.3	15
33	Hierarchically porous monoliths of oxygen-deficient anatase TiO2½ with electronic conductivity. <i>RSC Advances</i> , 2013 , 3, 7205	3.7	9
32	Illustrating Catalysis with Interlocking Building Blocks: Correlation between Structure of a Metallocene Catalyst and the Stereoregularity of Polypropylene. <i>Journal of Chemical Education</i> , 2013 , 90, 620-622	2.4	8
31	Sr2FeO3 with stacked infinite chains of FeO4 square planes. <i>Inorganic Chemistry</i> , 2013 , 52, 6096-102	5.1	33
30	Two Superconducting Phases in the Isovalent Solid Solutions BaTi2Pn2O (Pn= As, Sb, and Bi). <i>Journal of the Physical Society of Japan</i> , 2013 , 82, 033705	1.5	36
29	Low temperature solventless synthesis and characterization of Ni and Fe magnetic nanoparticles. <i>Chemical Communications</i> , 2012 , 48, 8237-9	5.8	16
28	Epitaxial thin films of ATiO(3-x)H(x) (A = Ba, Sr, Ca) with metallic conductivity. <i>Journal of the American Chemical Society</i> , 2012 , 134, 8782-5	16.4	79
27	An oxyhydride of BaTiO3 exhibiting hydride exchange and electronic conductivity. <i>Nature Materials</i> , 2012 , 11, 507-11	27	205
26	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> , 2012 , 134, 10894-8	16.4	88
25	Oxyhydrides of (Ca,Sr,Ba)TiO3 perovskite solid solutions. <i>Inorganic Chemistry</i> , 2012 , 51, 11371-6	5.1	65
24	Simultaneous Quantification of Hydride Ions and Electrons Incorporated in 12CaOl Al2O3 Cages by Deuterium-Labeled Volumetric Analysis. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 8747-8752	3.8	6
23	(Sr(1-x)Ba(x))FeO2 (0.4 lk ll): a new oxygen-deficient perovskite structure. <i>Journal of the American Chemical Society</i> , 2012 , 134, 11444-54	16.4	28
22	Electrochemical characterization of single-layer MnO2 nanosheets as a high-capacitance pseudocapacitor electrode. <i>Journal of Materials Chemistry</i> , 2012 , 22, 14691		46
21	Superconductivity in BaTi2Sb2O with ad1Square Lattice. <i>Journal of the Physical Society of Japan</i> , 2012 , 81, 103706	1.5	75
20	B1-to-B2 structural transitions in rock salt intergrowth structures. <i>Inorganic Chemistry</i> , 2011 , 50, 11787	'-9 4 1	12
19	Fe-site substitution effect on the structural and magnetic properties in SrFeO2. <i>Inorganic Chemistry</i> , 2011 , 50, 3988-95	5.1	42
18	Pressure-induced structural, magnetic, and transport transitions in the two-legged ladder Sr3Fe2O5. <i>Journal of the American Chemical Society</i> , 2011 , 133, 6036-43	16.4	27

17	Highly Reduced Anatase TiO2-Thin Films Obtained via Low-Temperature Reduction. <i>Applied Physics Express</i> , 2011 , 4, 035801	2.4	16
16	Synthesis and thermal stability of the solid solution AFeO2 (A = Ba, Sr, Ca). <i>Inorganic Chemistry</i> , 2010 , 49, 5957-62	5.1	23
15	Conductivity, Doping, and Redox Chemistry of a Microporous Dithiolene-Based Metal®rganic Framework. <i>Chemistry of Materials</i> , 2010 , 22, 4120-4122	9.6	403
14	Ion-exchangeable, electronically conducting layered perovskite oxyfluorides. <i>Journal of the American Chemical Society</i> , 2009 , 131, 9849-55	16.4	92
13	Direct deposition of trivalent rhodium hydroxide nanoparticles onto a semiconducting layered calcium niobate for photocatalytic hydrogen evolution. <i>Nano Letters</i> , 2008 , 8, 794-9	11.5	120
12	Soft Chemical Conversion of Layered Double Hydroxides to Superparamagnetic Spinel Platelets. <i>Chemistry of Materials</i> , 2008 , 20, 2374-2381	9.6	69
11	Potassium niobate nanoscrolls incorporating rhodium hydroxide nanoparticles for photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry</i> , 2008 , 18, 5982		46
10	Proton-Conducting Films of Nanoscale Ribbons Formed by Exfoliation of the Layer Perovskite H2SrTa2O7. <i>Chemistry of Materials</i> , 2008 , 20, 213-219	9.6	19
9	pH-Dependent Intercalation of Gold Nanoparticles into a Synthetic Fluoromica Modified with Poly(Allylamine). <i>Chemistry of Materials</i> , 2007 , 19, 6588-6596	9.6	19
8	Scrolled Sheet Precursor Route to Niobium and Tantalum Oxide Nanotubes. <i>Nano Letters</i> , 2007 , 7, 2142	!- 21 1. 4 5	108
7	Encapsulation of Anionic Dye Molecules by a Swelling Fluoromica through Intercalation of Cationic Polyelectrolytes. <i>Chemistry of Materials</i> , 2007 , 19, 79-87	9.6	37
6	Structural Effects in the Protonic/Electronic Conductivity of Dion-Jacobson Phase Niobate and Tantalate Layered Perovskites. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 3185-3191	3.8	32
5	Intercalation of well-dispersed gold nanoparticles into layered oxide nanosheets through intercalation of a polyamine. <i>Journal of the American Chemical Society</i> , 2007 , 129, 3064-5	16.4	54
4	A Scrolled Sheet Precursor Route to Niobium Oxide Nanotubes. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 988, 1		2
3	Interlayer Charge Conversion Through Intercalation of Polycations into a Synthetic Swelling Mica. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 988, 1		1
2	Synthesis of carbon nanotubes on Ni/carbon-fiber catalysts under mild conditions. <i>Carbon</i> , 2004 , 42, 727-736	10.4	74
1	Formation of Hydrogen through the Decomposition of Kerosene over Nickel-Based Catalysts. Energy & Damp; Fuels, 2004, 18, 1775-1783	4.1	4