

# Takafumi Yamamoto

## List of Publications by Citations

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75  
papers

1,603  
citations

23  
h-index

37  
g-index

86  
ext. papers

1,893  
ext. citations

7.9  
avg, IF

4.32  
L-index

#	Paper	IF	Citations
75	BaFeO <sub>3</sub> : a ferromagnetic iron oxide. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 12547-50	16.4	127
74	Superconducting state coexisting with a phase-separated static magnetic order in (Ba,K)Fe <sub>2</sub> As <sub>2</sub> , (Sr,Na)Fe <sub>2</sub> As <sub>2</sub> , and CaFe <sub>2</sub> As <sub>2</sub> . <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	115
73	A labile hydride strategy for the synthesis of heavily nitridized BaTiO <sub>3</sub> . <i>Nature Chemistry</i> , <b>2015</b> , 7, 1017-23	7.6	87
72	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
71	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
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	Hydride Reductions of Transition Metal Oxides. <i>Chemistry Letters</i> , <b>2013</b> , 42, 946-953	1.7	53
68	Stability of the infinite layer structure with iron square planar coordination. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 3764-5	16.4	49
67	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
66	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
65	Realization of interlayer ferromagnetic interaction in MnSbTe toward the magnetic Weyl semimetal state. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	41
64	Nonlinear magnetization dynamics of antiferromagnetic spin resonance induced by intense terahertz magnetic field. <i>New Journal of Physics</i> , <b>2016</b> , 18, 013045	2.9	40
63	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
62	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
61	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 a 1 Square Net. <i>Journal of the Physical Society of Japan</i> , <b>2013</b> , 82, 013703	1.5	36
60	The role of blocking hydride ligands in a pressure-induced insulator-to-metal phase transition in SrVOH. <i>Nature Communications</i> , <b>2017</b> , 8, 1217	17.4	34
59	Band Engineering of Double-Layered Sillurivillius Perovskite Oxychlorides for Visible-Light-Driven Water Splitting. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3419-3429	9.6	32

58	Antiferromagnetic resonance excitation by terahertz magnetic field resonantly enhanced with splitting resonator. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 022410	3.4	31
57	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
56	$(\text{Sr}(1-x)\text{Ba}(x))\text{FeO}_2$ ( $0.4 \leq x \leq 1$ ): a new oxygen-deficient perovskite structure. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 11444-54	16.4	28
55	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
54	Muon spin relaxation studies of the frustrated quasi-two-dimensional square-lattice spin system $\text{Cu}(\text{Cl},\text{Br})\text{La}(\text{Nb},\text{Ta})_2\text{O}_7$ : Evolution from spin-gap to antiferromagnetic state. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	24
53	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
52	Synthesis and thermal stability of the solid solution $\text{AFeO}_2$ ( $\text{A} = \text{Ba}, \text{Sr}, \text{Ca}$ ). <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 5957-62	5.1	23
51	Synthesis, structure, and magnetic properties of the two-dimensional quantum antiferromagnets $(\text{CuBr})\text{A}_2\text{B}_3\text{O}_{10}$ ( $\text{A} = \text{Ca}, \text{Sr}, \text{Ba}, \text{Pb}$ ; $\text{B} = \text{Nb}, \text{Ta}$ ) with the $1/3$ magnetization plateau. <i>Physical Review B</i> , <b>2008</b> , 78,	3.3	23
50	$\text{ZnTaON}$ : 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
49	$\text{MnTaO}_2\text{N}$ : 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
48	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
47	Selective Hydride Occupation in $\text{BaVO}_3\text{H}_x$ ( $0.3 \leq x \leq 0.8$ ) with Face- and Corner-Shared Octahedra. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 1566-1574	9.6	20
46	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
45	Conduction Band Control of Oxyhalides with a Triple-Fluorite Layer for Visible Light Photocatalysis. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 2491-2499	16.4	20
44	$\text{BaFeO}_3$ : A Ferromagnetic Iron Oxide. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 12755-12758	3.6	19
43	Substrate-induced anion rearrangement in epitaxial thin films of $\text{LaSrCoO}_4\text{H}_x$ . <i>CrystEngComm</i> , <b>2014</b> , 16, 9669-9674	3.3	17
42	High-Pressure Synthesis of $\text{A NiO Ag Se}$ ( $\text{A} = \text{Sr}, \text{Ba}$ ) with a High-Spin Ni in Square-Planar Coordination. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 756-759	16.4	16
41	$\text{AgFeOF}$ : A Fluorine-Rich Perovskite Oxyfluoride. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 6686-6691	5.1	15

40	Gas phase contributions to topochemical hydride reduction reactions. <i>Journal of Solid State Chemistry</i> , <b>2013</b> , 207, 190-193	3.3	15
39	Hydride-Enhanced CO <sub>2</sub> Methanation: Water-Stable BaTiO <sub>2</sub> ·4H <sub>2</sub> O as a New Support. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800800	21.8	15
38	Random fan-out state induced by site-random interlayer couplings. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	14
37	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
36	Hypervalent Bismuthides LaMBi (M = Ti, Zr, Hf) and Related Antimonides: Absence of Superconductivity. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 5041-5045	5.1	12
35	Highly Correlated Hydride Ion Tracer Diffusion in SrTiOH Oxyhydrides. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 4653-4659	16.4	12
34	B1-to-B2 structural transitions in rock salt intergrowth structures. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 11787-941	3.1	12
33	Cubic lead perovskite PbMoO <sub>3</sub> with anomalous metallic behavior. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	10
32	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
31	High-Pressure Synthesis of Manganese Oxyhydride with Partial Anion Order. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 9819-9822	3.6	10
30	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	3.1	9
29	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
28	Quadruple-layered perovskite (CuCl)Ca <sub>2</sub> NaNb <sub>4</sub> O <sub>13</sub> . <i>Journal of Solid State Chemistry</i> , <b>2012</b> , 185, 10-17	3.3	8
27	Field-Induced Ferromagnetism of Fe <sup>4+</sup> -Perovskite System, Sr <sub>1-x</sub> BaxFeO <sub>3</sub> (0 ≤ x ≤ 1). <i>Journal of the Physical Society of Japan</i> , <b>2013</b> , 82, 113702	1.5	8
26	Strain-induced creation and switching of anion vacancy layers in perovskite oxynitrides. <i>Nature Communications</i> , <b>2020</b> , 11, 5923	17.4	8
25	High-Pressure Synthesis of A <sub>2</sub> NiO <sub>2</sub> Ag <sub>2</sub> Se <sub>2</sub> (A=Sr, Ba) with a High-Spin Ni <sup>2+</sup> in Square-Planar Coordination. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 766-769	3.6	7
24	High-pressure synthesis of the layered iron oxyselenide BaFe <sub>2</sub> Se <sub>2</sub> O with strong magnetic anisotropy. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	7
23	Selective and low temperature transition metal intercalation in layered tellurides. <i>Nature Communications</i> , <b>2016</b> , 7, 13809	17.4	7

22	Heavy interstitial hydrogen doping into SrTiO. <i>Chemical Communications</i> , <b>2018</b> , 54, 12439-12442	5.8	7
21	Interlayer Communication in Aurivillius Vanadate to Enable Defect Structures and Charge Ordering. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 10925-33	5.1	6
20	Robust Giant Tetragonal Distortion Coupled with High-Spin Co in Electron-Doped BiCoO. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 16059-16064	5.1	6
19	Responsive Four-Coordinate Iron(II) Nodes in FePd(CN). <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 19254-19259	16.4	6
18	Pressure-Induced Transitions in the 1-Dimensional Vanadium Oxyhydrides SrVOH and SrVOH, and Comparison to 2-Dimensional SrVOH. <i>Inorganic Chemistry</i> , <b>2019</b> , 58, 15393-15400	5.1	5
17	Suppression of H <sub>2</sub> O 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
16	Valence Band Engineering by a Layer Insertion to Sillurivillius Perovskite Oxyhalides. <i>Chemistry Letters</i> , <b>2017</b> , 46, 1083-1085	1.7	4
15	Enhanced Magnetic Interaction by Face-Shared Hydride Anions in 6H-BaCrOH. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 11957-11963	5.1	4
14	Observation of Stabilized Monoclinic Phase as a Bridge at the Morphotropic Phase Boundary between Tetragonal Perovskite PbVO <sub>3</sub> and Rhombohedral BiFeO <sub>3</sub> . <i>Chemistry of Materials</i> , <b>2020</b> , 32, 3615-3620	9.6	3
13	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
12	PbBi <sub>3</sub> O <sub>4</sub> X <sub>3</sub> (X = Cl, Br) with Single/Double Halogen Layers as a Photocatalyst for Visible-Light-Driven Water Splitting: Impact of a Halogen Layer on the Band Structure and Stability. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 9580-9587	9.6	3
11	Structure and Optical Properties of Layered Perovskite (MA) <sub>2</sub> PbI <sub>2</sub> Br(SCN) <sub>2</sub> . <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 17379-17384	5.1	2
10	Base Catalysis of Sodium Salts of [Ta <sub>6</sub> Nb <sub>x</sub> O <sub>19</sub> ] <sub>8</sub> Mixed-Oxide Clusters. <i>Symmetry</i> , <b>2021</b> , 13, 1267	2.7	2
9	HfMnSb <sub>2</sub> : A Metal-Ordered NiAs-type Pnictide with a Conical Spin Order. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 9877-80	16.4	2
8	High-Pressure and High-Temperature Synthesis of Anion-Disordered Vanadium Perovskite Oxyhydrides. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 15751-15758	5.1	1
7			
6	HfMnSb <sub>2</sub> : A Metal-Ordered NiAs-type Pnictide with a Conical Spin Order. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10031-10034	3.6	1
5	High Pressure Synthesis of Hydride-fluoride Pyrochlore NaCaMg <sub>2</sub> F <sub>7</sub> H <sub>x</sub> . <i>Chemistry Letters</i> , <b>2018</b> , 47, 829-832	1.7	

- 4 Pressure-Induced Transitions in Square Planar Coordinate Metal Oxides. *Nihon Kessho Gakkaishi*, **2016**, 58, 261-266 0
- 3 Effect of Fe-site Substitution on Pressure-induced Spin Transition in SrFeO<sub>2</sub>. *Journal of the Physical Society of Japan*, **2017**, 86, 124716 1.5
- 2 Responsive Four-Coordinate Iron(II) Nodes in FePd(CN)<sub>4</sub>. *Angewandte Chemie*, **2020**, 132, 19416-19421 3.6
- 1 Conical-to-ferromagnetic phase conversion induced by cation order-disorder transition in Hf<sub>1-x</sub>MnSb<sub>2</sub>. *Journal of Solid State Chemistry*, **2018**, 263, 190-194 3.3