

# Takuya Hasegawa

## List of Publications by Year in descending order

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60  
papers

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516215

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docs citations

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times ranked

811  
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#	ARTICLE	IF	CITATIONS
1	Electrochromic Behavior Originating from the $W^{6+}/W^{5+}$ Redox in Aurivillius-type Tungsten-Based Layered Perovskites. <i>Inorganic Chemistry</i> , 2022, 61, 2509-2516.	1.9	10
2	Mechanism investigation of the enhanced oxygen storage performance of $YBaCo_4O_{7+\delta}$ synthesized by a glycine-complex decomposition method. <i>Chemical Communications</i> , 2022, 58, 2822-2825.	2.2	0
3	Utility of $NaMoO_3F$ as a Precursor for Homogeneous Distribution of Cobalt Dopants in Molybdenum Oxynitrides. <i>Chemistry - an Asian Journal</i> , 2022, , .	1.7	0
4	Morphology and facet tailoring of $CaSnO_3$ assembled in molten salt with defect-mediated photocatalytic activity. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108169.	3.3	2
5	$SnO-SnO_2$ modified two-dimensional MXene $Ti_3C_2T$ for acetone gas sensor working at room temperature. <i>Journal of Materials Science and Technology</i> , 2021, 73, 128-138.	5.6	117
6	A simple and novel effective strategy using mechanical treatment to improve the oxygen uptake/release rate of $YBaCo_4O_{7+\delta}$ for thermochemical cycles. <i>Journal of Materials Science and Technology</i> , 2021, 68, 8-15.	5.6	3
7	$MoS_2@Se_x$ Nanoparticles for NO Detection at Room Temperature. <i>ACS Applied Nano Materials</i> , 2021, 4, 6861-6871.	2.4	13
8	Remarkable Effects of Lanthanide Substitution for the Y-Site on the Oxygen Storage/Release Performance of $YMnO_3+\delta$ . <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 31691-31698.	4.0	6
9	An ultra-sensitive room temperature toluene sensor based on molten-salts modified carbon nitride. <i>Advanced Powder Technology</i> , 2021, 32, 4198-4209.	2.0	5
10	Enhanced visible-light-induced photocatalytic $NO_x$ degradation over (Ti,C)- $BiOBr/Ti_3C_2Tx$ MXene nanocomposites: Role of Ti and C doping. <i>Separation and Purification Technology</i> , 2021, 270, 118815.	3.9	29
11	Ce(IV)-centered charge-neutral perovskite layers topochemically derived from anionic $[CeTa_2O_7]^{2-}$ layers. <i>Chemical Science</i> , 2021, 12, 15016-15027.	3.7	3
12	Improvement of the Oxygen Storage/Release Speed of $YBaCo_4O_{7+\delta}$ Synthesized by a Glycine-Complex Decomposition Method. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 51008-51017.	4.0	4
13	New Path for Polyoxometalates: Controlled Synthesis and Characterization of Metal-Substituted Tungstosulfates. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 682-689.	1.0	1
14	Octahedral morphology of $NiO$ with (111) facet synthesized from the transformation of $NiOHCl$ for the $NO_x$ detection and degradation: experiment and DFT calculation. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 3431-3442.	3.0	16
15	Phase stabilization of red-emitting olivine-type $NaMgPO_4:Eu^{2+}$ phosphors via molten-phase quenching. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 4040-4051.	3.0	16
16	Preparation of MGF phosphor by $O_2$ postannealing and impact on luminescence properties and crystal lattice. <i>Journal of the American Ceramic Society</i> , 2020, 103, 5145-5156.	1.9	6
17	New layered perovskite family built from $[CeTa_2O_7]^{2-}$ layers: coloring mechanism from unique multi-transitions. <i>Chemical Communications</i> , 2020, 56, 8591-8594.	2.2	6
18	Surface Engineering of $1T/2H-MoS_2$ Nanoparticles by $O_2$ Plasma Irradiation as a Potential Humidity Sensor for Breathing and Skin Monitoring Applications. <i>ACS Applied Nano Materials</i> , 2020, 3, 7835-7846.	2.4	18

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19	Metal-substituted tungstosulfates with Keggin structure: synthesis and characterization. Dalton Transactions, 2020, 49, 2766-2770.	1.6	11
20	New Path for Polyoxometalates: Controlled Synthesis and Characterization of Metal-Substituted Tungstosulfates. European Journal of Inorganic Chemistry, 2020, 2020, 666-666.	1.0	1
21	CuO Nanoparticles/Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Hybrid Nanocomposites for Detection of Toluene Gas. ACS Applied Nano Materials, 2020, 3, 4755-4766.	2.4	162
22	Luminescence enhancement of LiSrPO <sub>4</sub> :Eu <sup>2+</sup> phosphor by Mg <sup>2+</sup> ion addition. Materials Research Innovations, 2019, 23, 359-362.	1.0	6
23	Single Crystal Growth and Crystal Structure Analysis of Novel Orange-Red Emission Pure Nitride CaAl <sub>2</sub> Si <sub>4</sub> N <sub>8</sub> :Eu <sup>2+</sup> Phosphor. ACS Omega, 2019, 4, 9939-9945.	1.6	13
24	Blue-light-pumped wide-band red emission in a new Ce <sup>3+</sup> -activated oxide phosphor, BaCa <sub>2</sub> Y <sub>6</sub> O <sub>12</sub> :Ce <sup>3+</sup> : Melt synthesis and photoluminescence study based on crystallographic analyses. Journal of Alloys and Compounds, 2019, 797, 1181-1189.	2.8	23
25	Mild condition synthesis without high temperature process of Eu <sup>2+</sup> -doped barium orthosilicate nanophosphor via Water-Assisted Solid-State Reaction (WASSR) method. Journal of Alloys and Compounds, 2019, 788, 1009-1012.	2.8	4
26	Quantitative Determination of the Effective Mn <sup>4+</sup> Concentration in a Li <sub>2</sub> TiO <sub>3</sub> :Mn <sup>4+</sup> Phosphor and Its Effect on the Photoluminescence Efficiency of Deep Red Emission. ACS Omega, 2019, 4, 19856-19862.	1.6	24
27	Blue-yellow multicolor phosphor, Eu <sup>2+</sup> -activated Li <sub>3</sub> NaSiO <sub>4</sub> : Excellent thermal stability and quenching mechanism. Journal of Alloys and Compounds, 2019, 776, 1016-1024.	2.8	35
28	Improved luminescence properties of Na <sub>2</sub> TiSiO <sub>5</sub> phosphor by the Ge <sup>4+</sup> doping in the crystal lattice. Journal of Ceramic Processing Research, 2019, 20, 460-463.	0.4	0
29	Research Trend on Information Display Technology. Kyokai Joho Imeji Zasshi/Journal of the Institute of Image Information and Television Engineers, 2019, 73, 318-329.	0.0	0
30	Bluish-White Luminescence in Rare-Earth-Free Vanadate Garnet Phosphors: Structural Characterization of LiCa <sub>3</sub> MV <sub>3</sub> O <sub>12</sub> (M = Zn and Mg). Inorganic Chemistry, 2018, 57, 857-866.	1.9	80
31	Nanophosphors synthesized by the water-assisted solid-state reaction (WASSR) method: Luminescence properties and reaction mechanism of the WASSR method. Applied Spectroscopy Reviews, 2018, 53, 177-194.	3.4	9
32	Potentiometric evaluation of antioxidant capacity using polyoxometalate-immobilized electrodes. Journal of Electroanalytical Chemistry, 2018, 828, 102-107.	1.9	12
33	Synthesis of Na<sub>2</sub>FePO<sub>4</sub>F using polytetrafluoroethylene. Journal of the Ceramic Society of Japan, 2018, 126, 336-340.	0.5	5
34	Structure of triaquatris(1,1,1-trifluoro-4-oxopentan-2-olato)cerium(III) as a possible fluorescent compound. Acta Crystallographica Section E: Crystallographic Communications, 2018, 74, 229-232.	0.2	0
35	Determination of the crystal structure and photoluminescence properties of NaEu <sub>x</sub> Gd <sub>1-x</sub> (MoO <sub>4</sub> ) <sub>2</sub> phosphor synthesized by a water-assisted low-temperature synthesis technique. RSC Advances, 2017, 7, 25089-25094.	1.7	9
36	Improvement of luminescence properties of rubidium vanadate, RbVO <sub>3</sub> , phosphors by erbium doping in the crystal lattice. New Journal of Chemistry, 2017, 41, 4788-4792.	1.4	15

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37	Yellow MgV <sub>2</sub> O <sub>6</sub> ·2H <sub>2</sub> O nanophosphor synthesized by a water-assisted solid-state reaction (WASSR) method at low temperature below 80°C. Dyes and Pigments, 2017, 145, 339-344.	2.0	3
38	Discovery of novel inorganic Mn <sup>5+</sup> -doped sky-blue pigments based on Ca <sub>6</sub> BaP <sub>4</sub> O <sub>17</sub> : Crystal structure, optical and color properties, and color durability. Dyes and Pigments, 2017, 139, 344-348.	2.0	29
39	Unusual, broad red emission of novel Ce <sup>3+</sup> -activated Sr <sub>3</sub> Sc <sub>4</sub> O <sub>9</sub> phosphors under visible-light excitation. Journal of Materials Chemistry C, 2017, 5, 9472-9478.	2.7	67
40	Development of Water Assisted Solid State Reaction for the Ceramic Materials. Key Engineering Materials, 2017, 751, 353-357.	0.4	2
41	Stabilization of novel high temperature phase yellow-emitting ĩf-type (Ba <sub>1-x</sub> Eu <sub>x</sub> Mg <sub>2</sub> P <sub>2</sub> O <sub>7</sub> ) phosphors using a melt synthesis technique. Inorganic Chemistry Frontiers, 2017, 4, 1562-1567.	3.0	7
42	Environmentally friendly Rb <sub>3</sub> V <sub>5</sub> O <sub>14</sub> fluorescent red pigment. Dyes and Pigments, 2017, 136, 219-223.	2.0	20
43	Development of a novel nontoxic vivid violet inorganic pigment “ Mn <sup>3+</sup> -doped LaAlGe <sub>2</sub> O <sub>7</sub> . Dyes and Pigments, 2017, 136, 243-247.	2.0	19
44	Color Tuning of Oxide Phosphors. , 2017, , 219-246.		1
45	On the possibility of polystyrene-derived carbon coating for NASICON-type Na<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub> composites as cathode materials for sodium-ion batteries. Journal of the Ceramic Society of Japan, 2017, 125, 322-325.	0.5	1
46	A new lanthanum(III) complex containing acetylacetonate and 1 <i>H</i> -imidazole. Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 1739-1742.	0.2	2
47	Paradigm Change for Solid State Reactions: Synthesis of Lithium Orthophosphate Li <sub>3</sub> PO <sub>4</sub> Nanoparticles by a Water Assisted Solid State Reaction (WASSR) Method. Science of Advanced Materials, 2017, 10, 592-596.	0.1	3
48	Abnormal improvement in emission of lanthanum oxysulfide phosphor La <sub>2</sub> O <sub>2</sub> S:Tb <sup>3+</sup> synthesized by a novel method, thermal decomposition in eutectic molten salt. Ceramics International, 2016, 42, 10389-10392.	2.3	4
49	Rare Earth-Doped Phosphors for White Light-Emitting Diodes. Fundamental Theories of Physics, 2016, 49, 1-128.	0.1	19
50	Improvement of Emission Intensity for Near-infrared-emitting Ca<sub>14</sub>Zn<sub>6</sub>Al<sub>10</sub>O<sub>35</sub>:Mn<sup>4+</sup> Phosphor by Oxygen-pressure Method. Chemistry Letters, 2016, 45, 1096-1098.	0.7	29
51	Improved synthesis of SrLiAl<sub>3</sub>N<sub>4</sub>:Eu<sup>2+</sup> phosphor using complex nitride raw material. RSC Advances, 2016, 6, 61906-61908.	1.7	13
52	Rare-earth-free white emitting Ba<sub>2</sub>TiP<sub>2</sub>O<sub>9</sub> phosphor: revealing its crystal structure and photoluminescence properties. Dalton Transactions, 2016, 45, 11554-11559.	1.6	8
53	Synthesis and Luminescent Properties of Novel Ca<sub>3</sub>Y<sub>3</sub>Ge<sub>2</sub>BO<sub>13</sub>:Ln<sup>3+</sup> (Ln<sup>3+</sup> = Tb<sup>3+</sup> and Eu<sup>3+</sup>) phosphors. Journal of the Ceramic Society of Japan, 2015, 123, 507-511.	0.5	3
54	Synthesis of blue-emitting (K<sub>1-x</sub>Na<sub>x</sub>)Mg <sub>4</sub> (PO <sub>4</sub> ) <sub>3</sub> :Eu <sup>2+</sup> phosphors. Journal of Information Display, 2014, 15, 53-57.	2.1	4

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55	Synthesis of Eu <sup>2+</sup> -activated Rb <sup>+</sup> Ba <sup>2+</sup> Sc <sup>3+</sup> Si <sup>4+</sup> O glass phosphors using melt synthesis technique. Journal of the Ceramic Society of Japan, 2014, 122, 452-455.	0.5	3
56	Novel Reddish Yellow-emitting Ce <sup>3+</sup> -Doped Ba <sub>3</sub> Sc <sub>4</sub> O <sub>9</sub> Phosphors for Blue-light-based White LEDs. Chemistry Letters, 2014, 43, 828-830.	0.7	23
57	Efficient Red Emission of Blue-Light Excitable New Structure Type NaMgPO <sub>4</sub> :Eu <sup>2+</sup> Phosphor. ECS Solid State Letters, 2013, 2, R49-R51.	1.4	44
58	Novel Soft Chemical Synthesis Methods of Ceramic Materials. Key Engineering Materials, 0, 690, 268-271.	0.4	10
59	Luminescence of Phosphor Balls Prepared Using Melt Quenching Synthesis Method. Materials Science Forum, 0, 883, 17-21.	0.3	2
60	Synthesis of Nano-Sized Materials Using Novel Water Assisted Solid State Reaction Method. Key Engineering Materials, 0, 777, 163-167.	0.4	4