Takuya Hasegawa

List of Publications by Year in descending order

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60 papers	984 citations	516215 16 h-index	476904 29 g-index
61 all docs	61 docs citations	61 times ranked	811 citing authors

#	Article	IF	Citations
1	CuO Nanoparticles/Ti₃C₂T_x MXene Hybrid Nanocomposites for Detection of Toluene Gas. ACS Applied Nano Materials, 2020, 3, 4755-4766.	2.4	162
2	SnO-SnO2 modified two-dimensional MXene Ti3C2T for acetone gas sensor working at room temperature. Journal of Materials Science and Technology, 2021, 73, 128-138.	5.6	117
3	Bluish-White Luminescence in Rare-Earth-Free Vanadate Garnet Phosphors: Structural Characterization of LiCa₃MV₃O₁₂ (M = Zn and Mg). Inorganic Chemistry, 2018, 57, 857-866.	1.9	80
4	Unusual, broad red emission of novel Ce³⁺-activated Sr₃Sc₄O₉ phosphors under visible-light excitation. Journal of Materials Chemistry C, 2017, 5, 9472-9478.	2.7	67
5	Efficient Red Emission of Blue-Light Excitable New Structure Type NaMgPO4:Eu2+ Phosphor. ECS Solid State Letters, 2013, 2, R49-R51.	1.4	44
6	Blue-yellow multicolor phosphor, Eu2+-activated Li3NaSiO4: Excellent thermal stability and quenching mechanism. Journal of Alloys and Compounds, 2019, 776, 1016-1024.	2.8	35
7	Improvement of Emission Intensity for Near-infrared-emitting Ca₁₄Zn₆Al₁₀O₃₅:Mn⁴⁺Phosphor by Oxygen-pressure Method. Chemistry Letters, 2016, 45, 1096-1098.	0.7	29
8	Discovery of novel inorganic Mn5+-doped sky-blue pigments based on Ca6BaP4O17: Crystal structure, optical and color properties, and color durability. Dyes and Pigments, 2017, 139, 344-348.	2.0	29
9	Enhanced visible-light-induced photocatalytic NOx degradation over (Ti,C)-BiOBr/Ti3C2Tx MXene nanocomposites: Role of Ti and C doping. Separation and Purification Technology, 2021, 270, 118815.	3.9	29
10	Quantitative Determination of the Effective Mn⁴⁺ Concentration in a Li₂TiO₃:Mn⁴⁺ Phosphor and Its Effect on the Photoluminescence Efficiency of Deep Red Emission. ACS Omega, 2019, 4, 19856-19862.	1.6	24
11	Novel Reddish Yellow-emitting Ce3+-Doped Ba3Sc4O9 Phosphors for Blue-light-based White LEDs. Chemistry Letters, 2014, 43, 828-830.	0.7	23
12	Blue-light-pumped wide-band red emission in a new Ce3+-activated oxide phosphor, BaCa2Y6O12:Ce3+: Melt synthesis and photoluminescence study based on crystallographic analyses. Journal of Alloys and Compounds, 2019, 797, 1181-1189.	2.8	23
13	Environmentally friendly Rb 3 V 5 O 14 fluorescent red pigment. Dyes and Pigments, 2017, 136, 219-223.	2.0	20
14	Rare Earth-Doped Phosphors for White Light-Emitting Diodes. Fundamental Theories of Physics, 2016, 49, 1-128.	0.1	19
15	Development of a novel nontoxic vivid violet inorganic pigment â€“ Mn 3+ -doped LaAlGe 2 O 7. Dyes and Pigments, 2017, 136, 243-247.	2.0	19
16	Surface Engineering of 1T/2H-MoS₂ Nanoparticles by O₂ Plasma Irradiation as a Potential Humidity Sensor for Breathing and Skin Monitoring Applications. ACS Applied Nano Materials, 2020, 3, 7835-7846.	2.4	18
17	Octahedral morphology of NiO with (111) facet synthesized from the transformation of NiOHCl for the NO_x detection and degradation: experiment and DFT calculation. Inorganic Chemistry Frontiers, 2020, 7, 3431-3442.	3.0	16
18	Phase stabilization of red-emitting olivine-type NaMgPO₄:Eu²⁺phosphorsviamolten-phase quenching. Inorganic Chemistry Frontiers, 2020, 7, 4040-4051.	3.0	16

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19	Improvement of luminescence properties of rubidium vanadate, RbVO₃, phosphors by erbium doping in the crystal lattice. New Journal of Chemistry, 2017, 41, 4788-4792.	1.4	15
20	Improved synthesis of SrLiAl₃N₄:Eu²⁺ phosphor using complex nitride raw material. RSC Advances, 2016, 6, 61906-61908.	1.7	13
21	Single Crystal Growth and Crystal Structure Analysis of Novel Orange-Red Emission Pure Nitride CaAl₂Si₄N₈:Eu²⁺ Phosphor. ACS Omega, 2019, 4, 9939-9945.	1.6	13
22	MoS_{2â€“x}Se_x Nanoparticles for NO Detection at Room Temperature. ACS Applied Nano Materials, 2021, 4, 6861-6871.	2.4	13
23	Potentiometric evaluation of antioxidant capacity using polyoxometalate-immobilized electrodes. Journal of Electroanalytical Chemistry, 2018, 828, 102-107.	1.9	12
24	Metal-substituted tungstosulfates with Keggin structure: synthesis and characterization. Dalton Transactions, 2020, 49, 2766-2770.	1.6	11
25	Novel Soft Chemical Synthesis Methods of Ceramic Materials. Key Engineering Materials, 0, 690, 268-271.	0.4	10
26	Electrochromic Behavior Originating from the W⁶⁺/W⁵⁺ Redox in Aurivillius-type Tungsten-Based Layered Perovskites. Inorganic Chemistry, 2022, 61, 2509-2516.	1.9	10
27	Determination of the crystal structure and photoluminescence properties of NaEu_{1â^'x}Gd_x(MoO₄)₂ phosphor synthesized by a water-assisted low-temperature synthesis technique. RSC Advances, 2017, 7, 25089-25094.	1.7	9
28	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
29	Rare-earth-free white emitting Ba₂TiP₂O₉ phosphor: revealing its crystal structure and photoluminescence properties. Dalton Transactions, 2016, 45, 11554-11559.	1.6	8
30	Stabilization of novel high temperature phase yellow-emitting Ïƒ-type (Ba_{1â^'xâ^'y}Eu_xMg_y)₂P₂O₇ phosphors using a melt synthesis technique. Inorganic Chemistry Frontiers, 2017, 4, 1562-1567.	3.0	7
31	Luminescence enhancement of LiSrPO₄:Eu²⁺ phosphor by Mg²⁺ ion addition. Materials Research Innovations, 2019, 23, 359-362.	1.0	6
32	Preparation of MGF phosphor by O₂ postannealing and impact on luminescence properties and crystal lattice. Journal of the American Ceramic Society, 2020, 103, 5145-5156.	1.9	6
33	New layered perovskite family built from [CeTa₂O₇]^{â^'} layers: coloring mechanism from unique multi-transitions. Chemical Communications, 2020, 56, 8591-8594.	2.2	6
34	Remarkable Effects of Lanthanide Substitution for the Y-Site on the Oxygen Storage/Release Performance of YMnO_{3+Î´}. ACS Applied Materials & Interfaces, 2021, 13, 31691-31698.	4.0	6
35	Synthesis of Na₂FePO₄F using polytetrafluoroethylene. Journal of the Ceramic Society of Japan, 2018, 126, 336-340.	0.5	5
36	An ultra-sensitive room temperature toluene sensor based on molten-salts modified carbon nitride. Advanced Powder Technology, 2021, 32, 4198-4209.	2.0	5

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37	Synthesis of blue-emitting (K1â^'xNax)Mg4(PO4)3:Eu2+phosphors. Journal of Information Display, 2014, 15, 53-57.	2.1	4
38	Abnormal improvement in emission of lanthanum oxysulfide phosphor La 2 O 2 S:Tb 3+ synthesized by a novel method, thermal decomposition in eutectic molten salt. Ceramics International, 2016, 42, 10389-10392.	2.3	4
39	Synthesis of Nano-Sized Materials Using Novel Water Assisted Solid State Reaction Method. Key Engineering Materials, 0, 777, 163-167.	0.4	4
40	Mild condition synthesis without high temperature process of Eu2+-doped barium orthosilicate nanophosphor via Water-Assisted Solid-State Reaction (WASSR) method. Journal of Alloys and Compounds, 2019, 788, 1009-1012.	2.8	4
41	Improvement of the Oxygen Storage/Release Speed of YBaCo4O7+Î´ Synthesized by a Glycine-Complex Decomposition Method. ACS Applied Materials & Interfaces, 2021, 13, 51008-51017.	4.0	4
42	Synthesis of Eu²⁺-activated Rbâ€“Baâ€“Scâ€“Siâ€“O glass phosphors using melt synthesis technique. Journal of the Ceramic Society of Japan, 2014, 122, 452-455.	0.5	3
43	Synthesis and Luminescent Properties of Novel Ca₃Y₃Ge₂BO₁₃:Ln³⁺ (Ln³⁺ = Tb³⁺ and Eu³⁺) phosphors. Journal of the Ceramic Society of Japan, 2015, 123, 507-511.	0.5	3
44	Yellow MgV 2 O 6 Â·2H 2 O nanophosphor synthesized by a water-assisted solid-state reaction (WASSR) method at low temperature below 80ÂÂ°C. Dyes and Pigments, 2017, 145, 339-344.	2.0	3
45	A simple and novel effective strategy using mechanical treatment to improve the oxygen uptake/release rate of YBaCo4O7+Î´ for thermochemical cycles. Journal of Materials Science and Technology, 2021, 68, 8-15.	5.6	3
46	Paradigm Change for Solid State Reactions: Synthesis of Lithium Orthophosphate Li3PO4 Nanoparticles by a Water Assisted Solid State Reaction (WASSR) Method. Science of Advanced Materials, 2017, 10, 592-596.	0.1	3
47	Ce(<scp>iv</scp>)-centered charge-neutral perovskite layers topochemically derived from anionic [CeTa₂O₇]^{â^'}layers. Chemical Science, 2021, 12, 15016-15027.	3.7	3
48	Luminescence of Phosphor Balls Prepared Using Melt Quenching Synthesis Method. Materials Science Forum, 0, 883, 17-21.	0.3	2
49	Development of Water Assisted Solid State Reaction for the Ceramic Materials. Key Engineering Materials, 2017, 751, 353-357.	0.4	2
50	A new lanthanum(III) complex containing acetylacetone and 1H-imidazole. Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 1739-1742.	0.2	2
51	Morphology and facet tailoring of CaSnO3 assembled in molten salt with defect-mediated photocatalytic activity. Journal of Environmental Chemical Engineering, 2022, 10, 108169.	3.3	2
52	Color Tuning of Oxide Phosphors. , 2017, , 219-246.		1
53	On the possibility of polystyrene-derived carbon coating for NASICON-type Na₃V₂(PO₄)₃ composites as cathode materials for sodium-ion batteries. Journal of the Ceramic Society of Japan, 2017, 125, 322-325.	0.5	1
54	New Path for Polyoxometalates: Controlled Synthesis and Characterization of Metalâ€Substituted Tungstosulfates. European Journal of Inorganic Chemistry, 2020, 2020, 682-689.	1.0	1

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55	New Path for Polyoxometalates: Controlled Synthesis and Characterization of Metal-Substituted Tungstosulfates. European Journal of Inorganic Chemistry, 2020, 2020, 666-666.	1.0	1
56	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
57	Improved luminescence properties of Na2TiSiO5 phosphor by the Ge4+ doping in the crystal lattice. Journal of Ceramic Processing Research, 2019, 20, 460-463.	0.4	0
58	Mechanism investigation of the enhanced oxygen storage performance of YBaCo₄O_{7+Î´} synthesized by a glycine-complex decomposition method. Chemical Communications, 2022, 58, 2822-2825.	2.2	0
59	Utility of NaMoO ₃ F as a Precursor for Homogeneous Distribution of Cobalt Dopants in Molybdenum Oxynitrides. Chemistry - an Asian Journal, 2022, , .	1.7	0
60	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