Bingtian Tu

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2492754/publications.pdf

Version: 2024-02-01

36	475	687220 13	713332 21
papers	citations	h-index	g-index

36	36	36	299
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Novel transparent ZnOÂ·3Al2O3 ceramics prepared by reactive hot isostatic pressing. Journal of the European Ceramic Society, 2022, 42, 724-728.	2.8	2
2	Investigation of the structural characteristics, dielectric properties, and infrared reflectivity spectra of AlON transparent ceramics. Journal of the European Ceramic Society, 2022, 42, 1362-1369.	2.8	6
3	Compositional tailoring effect on crystal structure, mechanical and thermal properties of Î³-AlON transparent ceramics. Journal of the European Ceramic Society, 2022, 42, 2983-2993.	2.8	8
4	Elasticity of Nonstoichiometric Alumina-Rich Spinel Determined by Bond Valence Theory and Brillouin Scattering. Inorganic Chemistry, 2022, 61, 4743-4751.	1.9	0
5	Highly transparent MgAl0.5Ga1.5O4 ceramic for overcoming the trade-off between infrared transmittance and mechanical properties. Scripta Materialia, 2022, 216, 114756.	2.6	2
6	Crystal structure and luminescence mechanism of novel Fe³⁺â€doped Mg_{0.752}Al_{2.165}O₄ deep redâ€emitting phosphors. Journal of the American Ceramic Society, 2022, 105, 5783-5792.	1.9	7
7	Investigation on composition-dependent properties of Mg5Al23â^'5O27+5N5â^'5 (0 â‰¤ x â‰¤ 1): Part I. optical properties via first-principles calculations. Journal of the European Ceramic Society, 2021, 41, 1543-1549.	2.8	4
8	Theoretical study on compositionâ€dependent properties of ZnOÂ· n Al 2 O 3 spinels. Part I: Optical and dielectric. Journal of the American Ceramic Society, 2021, 104, 5099-5109.	1.9	5
9	Theoretical study on compositionâ€dependent properties of ZnOÂ·nAl₂O₃ spinels. Part II: Mechanical and thermophysical. Journal of the American Ceramic Society, 2021, 104, 6455-6466.	1.9	10
10	A new quaternary Li0.19Al2.72O3.64N0.36 transparent ceramic with high hardness. Scripta Materialia, 2021, 199, 113837.	2.6	6
11	Effect of nitrogen content on optical properties of transparent Î³-AlON polycrystalline ceramics. Journal of the European Ceramic Society, 2021, 41, 4319-4326.	2.8	15
12	Investigation on composition-dependent properties of Mg5Al23â^'5O27+5N5â^'5 (0 â‰¤ x â‰¤ 1): Part II. Mechanical properties via first-principles calculations combined with bond valence models. Journal of the European Ceramic Society, 2021, 41, 4942-4950.	2.8	5
13	A novel durable spinel-type ZnGa2O4 transparent ceramic with wide transmission range. Scripta Materialia, 2021, 205, 114186.	2.6	6
14	Predicting Thermomechanical Properties of MgAl₂O₄ Transparent Ceramic Based on Bond Valence Models. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2021, 36, 1067.	0.6	3
15	Fabrication and properties of highly transparent Li0.07Al2.76O3.64N0.36 ceramics by aqueous gelcasting and two-step preparation. Ceramics International, 2021, 48, 6608-6608.	2.3	2
16	A novel spinel-type Mg0.55Al2.36O3.81N0.19 transparent ceramic with infrared transmittance range comparable to c-plane sapphire. Scripta Materialia, 2020, 178, 428-432.	2.6	25
17	Structural Study of MgyAl(8+xâ€“2y)/3O4â€“xNx (0 < x < 0.5, 0 < y < 1) Spinel Probed by X-ray Diffraction, 27Al MAS NMR, and First-Principles Calculations. Inorganic Chemistry, 2020, 59, 17009-17017.	1.9	9
18	Uranyl Organic Framework as a Highly Selective and Sensitive Turn-on and Turn-off Luminescent Sensor for Dual Functional Detection Arginine and MnO₄^{â€“}. Inorganic Chemistry, 2020, 59, 5004-5017.	1.9	53

#	Article	IF	Citations
19	Theoretical study on compositionâ€•and pressureâ€dependent mechanical properties of AlON solid solution. Journal of the American Ceramic Society, 2020, 103, 4390-4401.	1.9	8
20	Highly transparent Mg_{0.27}Al_{2.58}O_{3.73}N_{0.27} ceramic fabricated by aqueous gelcasting, pressureless sintering, and postâ€HIP. Journal of the American Ceramic Society, 2019, 102, 6507-6516.	1.9	16
21	Predicting properties of MgOÂ·nAl₂O₃ by firstâ€principles calculation combined with bond valence models. Journal of the American Ceramic Society, 2019, 102, 6913-6924.	1.9	6
22	Effect of pretreated microstructure on subsequent sintering performance of MgAl2O4 ceramics. Ceramics International, 2019, 45, 7544-7551.	2.3	10
23	Preparation of transparent MgOÂ·1.8Al2O3 spinel ceramics by aqueous gelcasting, presintering and hot isostatic pressing. Journal of the European Ceramic Society, 2018, 38, 4057-4063.	2.8	25
24	Magic Angle Spinning NMR Study on Inversion Behavior and Vacancy Disorder in Alumina-Rich Spinel. Inorganic Chemistry, 2018, 57, 8390-8395.	1.9	10
25	Phase relations of the nepheline-kalsilite system: X-ray diffraction and MÃ¶ssbauer spectroscopy. Journal of Alloys and Compounds, 2017, 712, 613-617.	2.8	6
26	Variation of Structure and Photoluminescence Properties of Ce3+ Doped MgAlON Transparent Ceramics with Different Doping Content. Materials, 2017, 10, 792.	1.3	4
27	Combining 27Al Solid-State NMR and First-Principles Simulations To Explore Crystal Structure in Disordered Aluminum Oxynitride. Inorganic Chemistry, 2016, 55, 12930-12937.	1.9	19
28	Characterization in activatorsâ€™ distribution and photoluminescence properties of Ce3+ doped MgAlON transparent fluorescent ceramic. Journal of the European Ceramic Society, 2016, 36, 2801-2805.	2.8	13
29	Theoretical predictions of composition-dependent structure and properties of alumina-rich spinel. Journal of the European Ceramic Society, 2016, 36, 1073-1079.	2.8	20
30	Novel divalent europium doped MgAlON transparent ceramic for shortwave ultraviolet erasable windows. Scripta Materialia, 2015, 105, 30-33.	2.6	22
31	Firstâ€Principles Insight into the Compositionâ€Dependent Structure and Properties of Î³â€Alon. Journal of the American Ceramic Society, 2014, 97, 2996-3003.	1.9	24
32	Composition-dependent bonding and hardness of Î³-aluminum oxynitride: A first-principles investigation. Journal of Applied Physics, 2014, 115, 223511.	1.1	14
33	Highly Transparent <scp><scp>Mg</scp></scp>_{0.27}<scp><scp>Al</scp></scp>_{2.58}<scp><scp>O</scp></scp>_{3.73} Ceramic Prepared by Pressureless Sintering. Journal of the American Ceramic Society, 2014, 97, 63-66.	1.9	43
34	Chemical Composition, Crystal Structure, and Their Relationships with the Intrinsic Properties of Spinel-Type Crystals Based on Bond Valences. Inorganic Chemistry, 2014, 53, 5986-5992.	1.9	32
35	Firstâ€Principles Study on Site Preference of Aluminum Vacancy and Nitrogen Atoms in Î³â€“Alon. Journal of the American Ceramic Society, 2013, 96, 1937-1943.	1.9	34
36	ZnOÂ·2.7Al 2 O 3 Nanocomposite with high optical transparency. Journal of the American Ceramic Society, 0, , .	1.9	0