

Bingtian Tu

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Uranyl Organic Framework as a Highly Selective and Sensitive Turn-on and Turn-off Luminescent Sensor for Dual Functional Detection Arginine and MnO ₄ ²⁻ . <i>Inorganic Chemistry</i> , 2020, 59, 5004-5017.	1.9	53
2	Highly Transparent Mg _{0.27} Al _{2.58} O _{3.73} N _{0.27} Ceramic Prepared by Pressureless Sintering. <i>Journal of the American Ceramic Society</i> , 2014, 97, 63-66.	1.9	13
3	First-Principles Study on Site Preference of Aluminum Vacancy and Nitrogen Atoms in $\hat{\gamma}$ -Alon. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1937-1943.	1.9	34
4	Chemical Composition, Crystal Structure, and Their Relationships with the Intrinsic Properties of Spinel-Type Crystals Based on Bond Valences. <i>Inorganic Chemistry</i> , 2014, 53, 5986-5992.	1.9	32
5	Preparation of transparent MgO \cdot 1.8Al ₂ O ₃ spinel ceramics by aqueous gelcasting, presintering and hot isostatic pressing. <i>Journal of the European Ceramic Society</i> , 2018, 38, 4057-4063.	2.8	25
6	A novel spinel-type Mg _{0.55} Al _{2.36} O _{3.81} N _{0.19} transparent ceramic with infrared transmittance range comparable to c-plane sapphire. <i>Scripta Materialia</i> , 2020, 178, 428-432.	2.6	25
7	First-Principles Insight into the Composition-Dependent Structure and Properties of $\hat{\gamma}$ -Alon. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2996-3003.	1.9	24
8	Novel divalent europium doped MgAlON transparent ceramic for shortwave ultraviolet erasable windows. <i>Scripta Materialia</i> , 2015, 105, 30-33.	2.6	22
9	Theoretical predictions of composition-dependent structure and properties of alumina-rich spinel. <i>Journal of the European Ceramic Society</i> , 2016, 36, 1073-1079.	2.8	20
10	Combining ²⁷ Al Solid-State NMR and First-Principles Simulations To Explore Crystal Structure in Disordered Aluminum Oxynitride. <i>Inorganic Chemistry</i> , 2016, 55, 12930-12937.	1.9	19
11	Highly transparent Mg _{0.27} Al _{2.58} O _{3.73} N _{0.27} ceramic fabricated by aqueous gelcasting, pressureless sintering, and post-CHIP. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6507-6516.	1.9	16
12	Effect of nitrogen content on optical properties of transparent $\hat{\gamma}$ -AlON polycrystalline ceramics. <i>Journal of the European Ceramic Society</i> , 2021, 41, 4319-4326.	2.8	15
13	Composition-dependent bonding and hardness of $\hat{\gamma}$ -aluminum oxynitride: A first-principles investigation. <i>Journal of Applied Physics</i> , 2014, 115, 223511.	1.1	14
14	Characterization in activators TM distribution and photoluminescence properties of Ce ³⁺ doped MgAlON transparent fluorescent ceramic. <i>Journal of the European Ceramic Society</i> , 2016, 36, 2801-2805.	2.8	13
15	Magic Angle Spinning NMR Study on Inversion Behavior and Vacancy Disorder in Alumina-Rich Spinel. <i>Inorganic Chemistry</i> , 2018, 57, 8390-8395.	1.9	10
16	Effect of pretreated microstructure on subsequent sintering performance of MgAl ₂ O ₄ ceramics. <i>Ceramics International</i> , 2019, 45, 7544-7551.	2.3	10
17	Theoretical study on composition-dependent properties of ZnO \cdot nAl ₂ O ₃ spinels. Part II: Mechanical and thermophysical. <i>Journal of the American Ceramic Society</i> , 2021, 104, 6455-6466.	1.9	10
18	Structural Study of Mg _y Al _(8-x²y) /3O ₄ \cdot xN _x (0 < x < 0.5, 0 < y < 1) Spinel Probed by X-ray Diffraction, ²⁷ Al MAS NMR, and First-Principles Calculations. <i>Inorganic Chemistry</i> , 2020, 59, 17009-17017.	1.9	9

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19	Theoretical study on composition- and pressure-dependent mechanical properties of AlON solid solution. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4390-4401.	1.9	8
20	Compositional tailoring effect on crystal structure, mechanical and thermal properties of $\hat{\Gamma}^3$ -AlON transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2022, 42, 2983-2993.	2.8	8
21	Crystal structure and luminescence mechanism of novel Fe ³⁺ -doped Mg _{0.752} Al _{2.165} O ₄ deep red-emitting phosphors. <i>Journal of the American Ceramic Society</i> , 2022, 105, 5783-5792.	1.9	7
22	Phase relations of the nepheline-kalsilite system: X-ray diffraction and Mössbauer spectroscopy. <i>Journal of Alloys and Compounds</i> , 2017, 712, 613-617.	2.8	6
23	Predicting properties of MgO·Al ₂ O ₃ by first-principles calculation combined with bond valence models. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6913-6924.	1.9	6
24	A new quaternary Li _{0.19} Al _{2.72} O _{3.64} N _{0.36} transparent ceramic with high hardness. <i>Scripta Materialia</i> , 2021, 199, 113837.	2.6	6
25	A novel durable spinel-type ZnGa ₂ O ₄ transparent ceramic with wide transmission range. <i>Scripta Materialia</i> , 2021, 205, 114186.	2.6	6
26	Investigation of the structural characteristics, dielectric properties, and infrared reflectivity spectra of AlON transparent ceramics. <i>Journal of the European Ceramic Society</i> , 2022, 42, 1362-1369.	2.8	6
27	Theoretical study on composition-dependent properties of ZnO·n Al ₂ O ₃ spinels. Part I: Optical and dielectric. <i>Journal of the American Ceramic Society</i> , 2021, 104, 5099-5109.	1.9	5
28	Investigation on composition-dependent properties of Mg ₅ Al ₂₃ O ₂₇ +5N ₅ (0 ≤ x ≤ 1): Part II. Mechanical properties via first-principles calculations combined with bond valence models. <i>Journal of the European Ceramic Society</i> , 2021, 41, 4942-4950.	2.8	5
29	Variation of Structure and Photoluminescence Properties of Ce ³⁺ Doped MgAlON Transparent Ceramics with Different Doping Content. <i>Materials</i> , 2017, 10, 792.	1.3	4
30	Investigation on composition-dependent properties of Mg ₅ Al ₂₃ O ₂₇ +5N ₅ (0 ≤ x ≤ 1): Part I. optical properties via first-principles calculations. <i>Journal of the European Ceramic Society</i> , 2021, 41, 1543-1549.	2.8	4
31	Predicting Thermomechanical Properties of MgAl ₂ O ₄ Transparent Ceramic Based on Bond Valence Models. <i>Wuji Cailiao Xuebao/Journal of Inorganic Materials</i> , 2021, 36, 1067.	0.6	3
32	Novel transparent ZnO·3Al ₂ O ₃ ceramics prepared by reactive hot isostatic pressing. <i>Journal of the European Ceramic Society</i> , 2022, 42, 724-728.	2.8	2
33	Fabrication and properties of highly transparent Li _{0.07} Al _{2.76} O _{3.64} N _{0.36} ceramics by aqueous gelcasting and two-step preparation. <i>Ceramics International</i> , 2021, 48, 6608-6608.	2.3	2
34	Highly transparent MgAl _{0.5} Ga _{1.5} O ₄ ceramic for overcoming the trade-off between infrared transmittance and mechanical properties. <i>Scripta Materialia</i> , 2022, 216, 114756.	2.6	2
35	ZnO·2.7Al ₂ O ₃ Nanocomposite with high optical transparency. <i>Journal of the American Ceramic Society</i> , 0, , .	1.9	0
36	Elasticity of Nonstoichiometric Alumina-Rich Spinel Determined by Bond Valence Theory and Brillouin Scattering. <i>Inorganic Chemistry</i> , 2022, 61, 4743-4751.	1.9	0