

Weimin Wang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Novel transparent ZnO·3Al ₂ O ₃ 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 $\hat{\Gamma}^3$ -AlON transparent ceramics. Journal of the European Ceramic Society, 2022, 42, 2983-2993.	2.8	8
4	Crystal structure and luminescence mechanism of novel Fe ³⁺ -doped Mg _{0.752} Al _{2.165} O ₄ deep red-emitting phosphors. Journal of the American Ceramic Society, 2022, 105, 5783-5792.	1.9	7
5	Investigation on composition-dependent properties of Mg ₅ Al ₂₃ ~ ₅ O ₂₇ + ₅ N ₅ ~ ₅ (0 ≤ x ≤ 1): Part I. optical properties via first-principles calculations. Journal of the European Ceramic Society, 2021, 41, 1543-1549.	2.8	4
6	Theoretical study on composition-dependent properties of ZnO·n Al ₂ O ₃ spinels. Part I: Optical and dielectric. Journal of the American Ceramic Society, 2021, 104, 5099-5109.	1.9	5
7	A prediction model of thermal expansion coefficient for cubic inorganic crystals by the bond valence model. Journal of Solid State Chemistry, 2021, 299, 122111.	1.4	13
8	Theoretical study on composition-dependent properties of ZnO·n Al ₂ O ₃ spinels. Part II: Mechanical and thermophysical. Journal of the American Ceramic Society, 2021, 104, 6455-6466.	1.9	10
9	Effect of nitrogen content on optical properties of transparent $\hat{\Gamma}^3$ -AlON polycrystalline ceramics. Journal of the European Ceramic Society, 2021, 41, 4319-4326.	2.8	15
10	Investigation on composition-dependent properties of Mg ₅ Al ₂₃ ~ ₅ O ₂₇ + ₅ N ₅ ~ ₅ (0 ≤ x ≤ 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
11	A novel durable spinel-type ZnGa ₂ O ₄ transparent ceramic with wide transmission range. Scripta Materialia, 2021, 205, 114186.	2.6	6
12	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. Scripta Materialia, 2020, 178, 428-432.	2.6	25
13	Highly permeable Al ₂ O ₃ microfiltration membranes with holey interior structure achieved through sacrificial C particles. Journal of the American Ceramic Society, 2020, 103, 3361-3372.	1.9	11
14	Structural Study of Mg _y Al _(8+x·2y) /3O ₄ ·xN _x (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
15	Theoretical study on composition- and pressure-dependent mechanical properties of AlON solid solution. Journal of the American Ceramic Society, 2020, 103, 4390-4401.	1.9	8
16	Highly transparent Mg _{0.27} Al _{2.58} O _{3.73} N _{0.27} ceramic fabricated by aqueous gelcasting, pressureless sintering, and post-HIP. Journal of the American Ceramic Society, 2019, 102, 6507-6516.	1.9	16
17	Predicting properties of MgO·n Al ₂ O ₃ by first-principles calculation combined with bond valence models. Journal of the American Ceramic Society, 2019, 102, 6913-6924.	1.9	6
18	Preparation of transparent MgO·1.8Al ₂ O ₃ spinel ceramics by aqueous gelcasting, presintering and hot isostatic pressing. Journal of the European Ceramic Society, 2018, 38, 4057-4063.	2.8	25

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19	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
20	Mn ²⁺ activated MgAlON transparent ceramic: A new green-emitting transparent ceramic phosphor for high-power white LED. <i>Journal of the European Ceramic Society</i> , 2017, 37, 4229-4233.	2.8	51
21	A simple bulk modulus model for crystal materials based on the bond valence model. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22177-22189.	1.3	12
22	Characterization in activator ³⁺ 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
23	Simple Method for the Hardness Estimation of Inorganic Crystals by the Bond Valence Model. <i>Inorganic Chemistry</i> , 2016, 55, 11089-11095.	1.9	17
24	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
25	Novel divalent europium doped MgAlON transparent ceramic for shortwave ultraviolet erasable windows. <i>Scripta Materialia</i> , 2015, 105, 30-33.	2.6	22
26	First-Principles Insight into the Composition-Dependent Structure and Properties of β -Alon. <i>Journal of the American Ceramic Society</i> , 2014, 97, 2996-3003.	1.9	24
27	Composition-dependent bonding and hardness of β -aluminum oxynitride: A first-principles investigation. <i>Journal of Applied Physics</i> , 2014, 115, 223511.	1.1	14
28	Highly Transparent β -Alon Ceramic Prepared by Pressureless Sintering. <i>Journal of the American Ceramic Society</i> , 2014, 97, 63-66.	1.9	13
29	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
30	First-Principles Study on Site Preference of Aluminum Vacancy and Nitrogen Atoms in β -Alon. <i>Journal of the American Ceramic Society</i> , 2013, 96, 1937-1943.	1.9	34
31	ZnO- β -Al ₂ O ₃ Nanocomposite with high optical transparency. <i>Journal of the American Ceramic Society</i> , 0, , .	1.9	0