

Weimin Wang

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Mn ²⁺ activated MgAlON transparent ceramic: A new green-emitting transparent ceramic phosphor for high-power white LED. Journal of the European Ceramic Society, 2017, 37, 4229-4233.	2.8	51
2	Highly Transparent $\text{Mg}_{0.27}\text{Al}_{2.58}\text{O}_{3.73}\text{N}_{0.27}$ Ceramic Prepared by Pressureless Sintering. Journal of the American Ceramic Society, 2014, 97, 63-66.	1.9	13
3	First-Principles Study on Site Preference of Aluminum Vacancy and Nitrogen Atoms in $\hat{\Gamma}^3\text{AlON}$. Journal of the American Ceramic Society, 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. Inorganic Chemistry, 2014, 53, 5986-5992.	1.9	32
5	Preparation of transparent $\text{MgO}\cdot 1.8\text{Al}_2\text{O}_3$ spinel ceramics by aqueous gelcasting, presintering and hot isostatic pressing. Journal of the European Ceramic Society, 2018, 38, 4057-4063.	2.8	25
6	A novel spinel-type $\text{Mg}_{0.55}\text{Al}_{2.36}\text{O}_{3.81}\text{N}_{0.19}$ transparent ceramic with infrared transmittance range comparable to c-plane sapphire. Scripta Materialia, 2020, 178, 428-432.	2.6	25
7	First-Principles Insight into the Composition-Dependent Structure and Properties of $\hat{\Gamma}^3\text{AlON}$. Journal of the American Ceramic Society, 2014, 97, 2996-3003.	1.9	24
8	Novel divalent europium doped MgAlON transparent ceramic for shortwave ultraviolet erasable windows. Scripta Materialia, 2015, 105, 30-33.	2.6	22
9	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
10	Simple Method for the Hardness Estimation of Inorganic Crystals by the Bond Valence Model. Inorganic Chemistry, 2016, 55, 11089-11095.	1.9	17
11	Highly transparent $\text{Mg}_{0.27}\text{Al}_{2.58}\text{O}_{3.73}\text{N}_{0.27}$ ceramic fabricated by aqueous gelcasting, pressureless sintering, and post-CHIP. Journal of the American Ceramic Society, 2019, 102, 6507-6516.	1.9	16
12	Effect of nitrogen content on optical properties of transparent $\hat{\Gamma}^3\text{-AlON}$ polycrystalline ceramics. Journal of the European Ceramic Society, 2021, 41, 4319-4326.	2.8	15
13	Composition-dependent bonding and hardness of $\hat{\Gamma}^3$ -aluminum oxynitride: A first-principles investigation. Journal of Applied Physics, 2014, 115, 223511.	1.1	14
14	Characterization in activators' distribution and photoluminescence properties of Ce ³⁺ doped MgAlON transparent fluorescent ceramic. Journal of the European Ceramic Society, 2016, 36, 2801-2805.	2.8	13
15	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
16	A simple bulk modulus model for crystal materials based on the bond valence model. Physical Chemistry Chemical Physics, 2017, 19, 22177-22189.	1.3	12
17	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
18	Magic Angle Spinning NMR Study on Inversion Behavior and Vacancy Disorder in Alumina-Rich Spinel. Inorganic Chemistry, 2018, 57, 8390-8395.	1.9	10

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19	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
20	Structural Study of Mg _y Al _(8+x-2y) O _{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
21	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
22	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
23	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
24	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
25	A novel durable spinel-type ZnGa ₂ O ₄ transparent ceramic with wide transmission range. Scripta Materialia, 2021, 205, 114186.	2.6	6
26	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
27	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
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. Journal of the European Ceramic Society, 2021, 41, 4942-4950.	2.8	5
29	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. Journal of the European Ceramic Society, 2021, 41, 1543-1549.	2.8	4
30	Novel transparent ZnO _{1.5} Al ₂ O ₃ ceramics prepared by reactive hot isostatic pressing. Journal of the European Ceramic Society, 2022, 42, 724-728.	2.8	2
31	ZnO _{2.7} Al ₂ O ₃ Nanocomposite with high optical transparency. Journal of the American Ceramic Society, 0, , .	1.9	0