Songming Wan

List of Publications by Year
in descending order

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30 papers	303 citations	933447 10 h-index	940533 16 g-index
30 all docs	30 docs citations	30 times ranked	227 citing authors

#	Article	IF	Citations
1	Micro-structure studies of the molten binary K₃AlF₆â€“Al₂O₃system byin situhigh temperature Raman spectroscopy and theoretical simulation. Inorganic Chemistry Frontiers, 2018, 5, 1861-1868.	6.0	37
2	Raman Spectroscopy Study on CsB₃O₅ Crystalâ”Melt Boundary Layer Structure. Crystal Growth and Design, 2008, 8, 412-414.	3.0	23
3	In Situ Raman Spectroscopy and DFT Studies of the Li2GeO3 Melt Structure. Inorganic Chemistry, 2019, 58, 5025-5030.	4.0	19
4	High temperature Raman spectroscopy study on the microstructure of the boundary layer around a growing LiB3O5 crystal. CrystEngComm, 2011, 13, 5239.	2.6	18
5	Raman spectroscopy and density functional theory analyses of the melt structure in a Li2B4O7 crystal growth system. CrystEngComm, 2014, 16, 3086-3090.	2.6	18
6	In-situ studies on the micro-structure evolution of A 2 W 2 O 7 (A = Li, Na, K) during melting by high temperature Raman spectroscopy and density functional theory. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 185, 188-196.	3.9	18
7	Structural analyses of a K₂O-rich KNbO₃melt and the mechanism of KNbO₃crystal growth. CrystEngComm, 2015, 17, 2636-2641.	2.6	15
8	Inâ€‰situ highâ€‰temperature Raman spectroscopic studies of the vibrational characteristics and microstructure evolution of sodium tungstate dihydrate crystal during heating and melting. Journal of Raman Spectroscopy, 2018, 49, 1693-1705.	2.5	15
9	New insights into the BiB₃O₆melt structure. CrystEngComm, 2013, 15, 995-1000.	2.6	14
10	Segregation during crystal growth from melt and absorption cross section determination by optical absorption method. Science in China Series G: Physics, Mechanics and Astronomy, 2008, 51, 481-491.	0.2	13
11	Structural investigation of Li₂Oâ€“B₂O₃â€“MoO₃glasses and high-temperature solutions: toward understanding the mechanism of flux-induced growth of lithium triborate crystal. CrystEngComm, 2013, 15, 356-364.	2.6	11
12	Raman and Density Functional Theory Studies of Li₂Mo₄O₁₃ Structures in Crystalline and Molten States. Inorganic Chemistry, 2017, 56, 14129-14134.	4.0	11
13	Quantitative Studies on the Structure of Molten Binary Potassium Molybdates by in Situ Raman Spectroscopy and Quantum Chemistry ab Initio Calculations. Analytical Chemistry, 2018, 90, 9085-9092.	6.5	11
14	Raman Spectral and Density Functional Theory Analyses of the CsB₃O₅ Melt Structure. Inorganic Chemistry, 2016, 55, 7098-7102.	4.0	10
15	Quantitative studies on the structure of xCaOâ‹…(1-x)SiO2 glasses and melts by in-situ Raman spectroscopy, 29Si MAS NMR and quantum chemistry ab initio calculation. Journal of Non-Crystalline Solids, 2020, 546, 120252.	3.1	10
16	Investigation on the Structure of a LiB3O5â€“Li2Mo3O10 High-Temperature Solution for Understanding the Li2Mo3O10 Flux Behavior. Inorganic Chemistry, 2017, 56, 3623-3630.	4.0	9
17	Structural investigations on two typical lithium germanate melts byin situRaman spectroscopy and density functional theory calculations. CrystEngComm, 2020, 22, 701-707.	2.6	9
18	Quantitative analysis on the microstructure of molten binary KFâ€“AlF₃ system by in situ Raman spectroscopy assisted with first principles method. Journal of Raman Spectroscopy, 2020, 51, 187-192.	2.5	8

#	Article	IF	Citations
19	In situ Raman investigation of a LiB₃O₅melt toward understanding the structural memory phenomena. CrystEngComm, 2015, 17, 9357-9362.	2.6	6
20	Room temperature Raman spectroscopy and 29Si MAS NMR combined with high temperature Raman spectroscopy and DFT calculation of xMgO-(1-x)CaOâ€“SiO2 glasses and melts. Ceramics International, 2022, 48, 4911-4920.	4.8	5
21	Structural studies of a Li₂OÂ·4B₂O₃ melt by high-temperature Raman spectroscopy and density functional theory. CrystEngComm, 2017, 19, 5721-5726.	2.6	4
22	Temperature Dependent Micro-Structure of KAlF4 from Solid to Molten States. Materials, 2018, 11, 1846.	2.9	4
23	BaGeO3: A Mid-IR Transparent Crystal with Superstrong Raman Response. Inorganic Chemistry, 2020, 59, 3542-3545.	4.0	3
24	Fine structures and their impacts on the characteristic Raman spectra of molten binary alkali tungstates. Journal of Raman Spectroscopy, 2021, 52, 1452-1461.	2.5	3
25	The structural origin of the 15 Î¼m residual absorption in the BaGa₄Se₇ crystal. Journal of Materials Chemistry C, 2022, 10, 649-654.	5.5	3
26	In situ investigation of the microstructure of KGd(WO4)2 crystal growth boundary layer by confocal laser Raman microscopy. CrystEngComm, 2012, 14, 8722.	2.6	2
27	Refractive properties of the Î±-BaGeO3 crystal and their origins: a density functional theory study. CrystEngComm, 2020, 22, 6620-6625.	2.6	2
28	Effect of MgO on the structure of SiO₂â€poor/rich MgOâ€CaOâ€SiO₂ melts by in situ high temperature timeâ€gated Raman spectroscopy and theoretical calculation. Journal of Raman Spectroscopy, 2022, 53, 1635-1646.	2.5	2
29	Synthesis of CuInTe 2 nanowires: A polycrystallineâ€toâ€singleâ€crystalline transformation process. Journal of the American Ceramic Society, 2018, 101, 5358-5362.	3.8	0
30	A thermodynamic criterion for the choice of flux and its validity in NaBO₂-fluxed Î²-BaB₂O₄ crystal growth. CrystEngComm, 0, , .	2.6	0