Keshu Wan

List of Publications by Year
in descending order

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32	674	471061 17	552369 26
papers	citations	h-index	g-index

32	32	32	623
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental and modelling research of the accelerated calcium leaching of cement paste in ammonium nitrate solution. Construction and Building Materials, 2013, 40, 832-846.	3.2	86
2	Solidâ€“liquid equilibrium curve of calcium in 6mol/L ammonium nitrate solution. Cement and Concrete Research, 2013, 53, 44-50.	4.6	53
3	3D spatial distribution of the calcium carbonate caused by carbonation of cement paste. Cement and Concrete Composites, 2014, 45, 255-263.	4.6	53
4	Synthesis and characterization of composite molecular sieves with mesoporous and microporous structure from ZSM-5 zeolites by heat treatment. Microporous and Mesoporous Materials, 2003, 62, 157-163.	2.2	49
5	Synthesis, characterization and catalytic properties of nitrogen-incorporated ZSM-5 molecular sieves with bimodal pores. Applied Catalysis A: General, 2004, 258, 55-61.	2.2	42
6	Synthesis of Highly Ordered Mesoporous Silicon Oxynitride with High Nitrogen Content. Chemistry Letters, 2003, 32, 362-363.	0.7	40
7	Biaxial stress dependence of the electrostimulated near-band-gap spectrum of GaN epitaxial film grown on (0001) sapphire substrate. Applied Physics Letters, 2006, 88, 251910.	1.5	28
8	The Basicity and Catalytic Activity of Ordered Mesoporous Silicon Nitride Oxide. Bulletin of the Chemical Society of Japan, 2004, 77, 1409-1414.	2.0	27
9	3D porosity distribution of partly calcium leached cement paste. Construction and Building Materials, 2013, 48, 11-15.	3.2	27
10	Methods of piezo-spectroscopic calibration of thin-film materials: I. Ball-on-ring biaxial flexure. Measurement Science and Technology, 2006, 17, 181-190.	1.4	25
11	In situ compressive damage of cement paste characterized by lab source X-ray computer tomography. Materials Characterization, 2013, 82, 32-40.	1.9	24
12	Application of tomography for solid calcium distributions in calcium leaching cement paste. Construction and Building Materials, 2012, 36, 913-917.	3.2	23
13	Methods of piezo-spectroscopic calibration of thin film materials: II. Tensile stress field at indentation crack tip. Measurement Science and Technology, 2006, 17, 191-198.	1.4	22
14	3D full field study of drying shrinkage of foam concrete. Cement and Concrete Composites, 2017, 82, 217-226.	4.6	22
15	Quantitative evaluation of probe response functions for Raman and fluorescence bands of single-crystalline and polycrystalline Al₂O₃. Journal Physics D: Applied Physics, 2010, 43, 205501.	1.3	18
16	Local porosity distribution of cement paste characterized by X-ray micro-tomography. Science China Technological Sciences, 2014, 57, 953-961.	2.0	18
17	Stress dependence of F+-center cathodoluminescence of sapphire. Applied Physics Letters, 2006, 89, 041908.	1.5	17
18	Spectral-resolved microprobe cathodoluminescence investigations of Al-doped single-crystalline Ba0.6Sr0.4TiO3 thin films. Applied Physics Letters, 2005, 87, 181914.	1.5	15

#	Article	IF	Citations
19	Cathodoluminescence Investigation of Residual Stress in Er3+:YAlO3Thin Films Grown on (110) SrTiO3Substrate by Metal-Organic Chemical Vapor Deposition. Journal of Physical Chemistry B, 2006, 110, 23977-23981.	1.2	14
20	The grain-boundary-related optical and electrical properties in polycrystalline p-type ZnO films. Chemical Physics Letters, 2006, 420, 448-452.	1.2	13
21	Thermal stability of Siâ€“MCM-41 in gaseous atmosphere. Materials Letters, 2003, 57, 3839-3842.	1.3	11
22	Determination of in-depth probe response function using spectral perturbation methods. Journal of Applied Physics, 2005, 98, 113101.	1.1	10
23	Calibration of grayscale values of cement constituents using industrial X-ray tomography. Science China Technological Sciences, 2015, 58, 485-492.	2.0	9
24	Spatial distribution of the increased porosity of cement paste due to calcium leaching. Journal Wuhan University of Technology, Materials Science Edition, 2015, 30, 735-744.	0.4	7
25	Expanded digital volume correlation forex situapplications. Measurement Science and Technology, 2015, 26, 095605.	1.4	6
26	Representative elementary volume analysis of hardened cement paste during hydration using X-ray Computed Tomography. Construction and Building Materials, 2021, 277, 122268.	3.2	5
27	Fabrication of Multiple Slit Using Stacked-Sliced Method for Hard X-ray Talbotâ€“Lau Interferometer. Japanese Journal of Applied Physics, 2008, 47, 7412-7414.	0.8	3
28	Three-dimensional analysis of micro defect morphologies in cement-based materials using focused ion beam tomography. Science China Technological Sciences, 2012, 55, 1539-1544.	2.0	2
29	A discussion of the paper â€œDifferential-scheme based dissolution diffusion model for calcium leaching in cement-based materials accounting for mix design and binder compositionâ€• Cement and Concrete Research, 2014, 58, 201-203.	4.6	2
30	Thermal-Degradation Process Analysis of Mesoporous Silica in Different Atmospheres. Bulletin of the Chemical Society of Japan, 2005, 78, 1879-1883.	2.0	1
31	Raman piezospectroscopic evaluation of intergrowth ferroelectric polycrystalline ceramic in biaxial bending configuration. Journal of Applied Physics, 2007, 101, 033501.	1.1	1
32	How to Measure the Absorption and Desorption Curves of Superabsorbent Polymers in the Presence of Calcium Ions. Journal of Advanced Concrete Technology, 2021, 19, 1285-1295.	0.8	1