

Katrin Hurlle

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7417531/publications.pdf>

Version: 2024-02-01

29
papers

659
citations

623574

14
h-index

580701

25
g-index

30
all docs

30
docs citations

30
times ranked

694
citing authors

#	ARTICLE	IF	CITATIONS
1	Reaction kinetics of dual setting β -tricalcium phosphate cements. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 1.	1.7	113
2	Ion-doped Brushite Cements for Bone Regeneration. <i>Acta Biomaterialia</i> , 2021, 123, 51-71.	4.1	58
3	Grasping the Lithium hype: Insights into modern dental Lithium Silicate glass-ceramics. <i>Dental Materials</i> , 2022, 38, 318-332.	1.6	54
4	Effect of amorphous phases during the hydraulic conversion of β -TCP into calcium-deficient hydroxyapatite. <i>Acta Biomaterialia</i> , 2014, 10, 3931-3941.	4.1	46
5	Phase-specific bioactivity and altered Ostwald ripening pathways of calcium carbonate polymorphs in simulated body fluid. <i>RSC Advances</i> , 2019, 9, 18232-18244.	1.7	44
6	Crack-healing during two-stage crystallization of biomedical lithium (di)silicate glass-ceramics. <i>Dental Materials</i> , 2019, 35, 1130-1145.	1.6	43
7	New insights into the crystallization process of sol-gel derived 45S5 bioactive glass. <i>Journal of the American Ceramic Society</i> , 2020, 103, 4234-4247.	1.9	28
8	Phase characterization of lithium silicate biomedical glass-ceramics produced by two-stage crystallization. <i>Journal of Non-Crystalline Solids</i> , 2019, 510, 42-50.	1.5	27
9	Hydration mechanism of a calcium phosphate cement modified with phytic acid. <i>Acta Biomaterialia</i> , 2018, 80, 378-389.	4.1	26
10	Mechanical improvement of calcium carbonate cements by <i>in situ</i> HEMA polymerization during hardening. <i>Journal of Materials Chemistry B</i> , 2019, 7, 3403-3411.	2.9	22
11	Concurrent kinetics of crystallization and toughening in multicomponent biomedical SiO ₂ -Li ₂ O-P ₂ O ₅ -ZrO ₂ glass-ceramics. <i>Journal of Non-Crystalline Solids</i> , 2021, 554, 120607.	1.5	20
12	Relationships between fracture toughness, Y ₂ O ₃ fraction and phases content in modern dental Yttria-doped zirconias. <i>Journal of the European Ceramic Society</i> , 2021, 41, 7771-7782.	2.8	19
13	Cu ²⁺ doped β -tricalcium phosphate: Solid solution limit and crystallographic characterization by rietveld refinement. <i>Journal of Solid State Chemistry</i> , 2020, 285, 121225.	1.4	17
14	Crystallization study of sol-gel derived 13-93 bioactive glass powder. <i>Journal of the European Ceramic Society</i> , 2021, 41, 1695-1706.	2.8	17
15	Deepening our understanding of bioactive glass crystallization using TEM and 3D nano-CT. <i>Journal of the European Ceramic Society</i> , 2021, 41, 4958-4969.	2.8	15
16	Calorimetry investigations of milled β -tricalcium phosphate (β -TCP) powders to determine the formation enthalpies of β -TCP and X-ray amorphous tricalcium phosphate. <i>Acta Biomaterialia</i> , 2015, 23, 338-346.	4.1	14
17	Effect of sintering parameters on phase evolution and strength of dental lithium silicate glass-ceramics. <i>Dental Materials</i> , 2019, 35, 1360-1369.	1.6	14
18	Setting Mechanism of a CDHA Forming β -TCP Cement Modified with Sodium Phytate for Improved Injectability. <i>Materials</i> , 2019, 12, 2098.	1.3	11

#	ARTICLE	IF	CITATIONS
19	Crack growth rates in lithium disilicates with bulk (mis)alignment of the Li ₂ Si ₂ O ₅ phase in the [001] direction. <i>Journal of Non-Crystalline Solids</i> , 2020, 532, 119877.	1.5	11
20	Scavenging of bacteria or bacterial products by magnetic particles functionalized with a broad-spectrum pathogen recognition receptor motif offers diagnostic and therapeutic applications. <i>Acta Biomaterialia</i> , 2022, 141, 418-428.	4.1	11
21	Mechanical activation and cement formation of trimagnesium phosphate. <i>Journal of the American Ceramic Society</i> , 2018, 101, 1830-1834.	1.9	10
22	Influence of Sr ²⁺ on Calcium-Deficient Hydroxyapatite Formation Kinetics and Morphology in Partially Amorphized β -TCP. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1055-1063.	1.9	9
23	Toughening by revitrification of Li ₂ SiO ₃ crystals in Obsidian [®] dental glass-ceramic. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 124, 104739.	1.5	8
24	Hydration mechanism of partially amorphized β -tricalcium phosphate. <i>Acta Biomaterialia</i> , 2017, 54, 429-440.	4.1	7
25	Progressive changes in crystallographic textures of biominerals generate functionally graded ceramics. <i>Materials Advances</i> , 2022, 3, 1527-1538.	2.6	4
26	Pyrophosphate ions inhibit calcium phosphate cement reaction and enable storage of premixed pastes with a controlled activation by orthophosphate addition. <i>Ceramics International</i> , 2022, 48, 15390-15404.	2.3	4
27	Hydration enthalpy of amorphous tricalcium phosphate resulting from partial amorphization of β -tricalcium phosphate. <i>BioNanoMaterials</i> , 2017, 18, .	1.4	3
28	Shape Matters: Crystal Morphology and Surface Topography Alter Bioactivity of Bioceramics in Simulated Body Fluid. <i>Advanced Engineering Materials</i> , 2020, 22, 2000044.	1.6	3
29	Mapping the elemental and crystalline phase distribution in Cu ²⁺ doped 45S5 bioactive glass upon crystallization. <i>CrystEngComm</i> , 2022, 24, 284-293.	1.3	1