Michael Kracker

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/382862/publications.pdf

Version: 2024-02-01

26 papers	251 citations	840776 11 h-index	996975 15 g-index
27 all docs	27 docs citations	27 times ranked	256 citing authors

#	Article	IF	Citations
1	Surface crystallization of low thermal expansion Ba_{0.5}Sr_{0.5}Zn₂Si₂O₇ from an 8 BaOÂ·8 SrOÂ·34 ZnOÂ·50 SiO₂ glass. RSC Advances, 2017, 7, 44834-44842.	3.6	24
2	Optical properties of self assembled oriented island evolution of ultra-thin gold layers. Thin Solid Films, 2012, 520, 4941-4946.	1.8	21
3	Textures of Au, Pt and Pd/PdO nanoparticles thermally dewetted from thin metal layers on fused silica. RSC Advances, 2014, 4, 48135-48143.	3.6	20
4	Gold nano-particles fixed on glass. Applied Surface Science, 2012, 258, 8506-8513.	6.1	19
5	Redox effects and formation of gold nanoparticles for the nucleation of low thermal expansion phases from BaO/SrO/ZnO/SiO₂ glasses. RSC Advances, 2018, 8, 6267-6277.	3.6	19
6	Solâ€“gel powder synthesis and preparation of ceramics with high- and low-temperature polymorphs of Ba Sr1-Zn2Si2O7 (x= 1 and 0.5): A novel approach to obtain zero thermal expansion. Journal of the European Ceramic Society, 2016, 36, 2097-2107.	5.7	17
7	Optical properties of dewetted thin silver/gold multilayer films on glass substrates. Thin Solid Films, 2013, 539, 47-54.	1.8	16
8	Optical properties of palladium nanoparticles under exposure of hydrogen and inert gas prepared by dewetting synthesis of thin-sputtered layers. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	15
9	Oriented growth of a Î²-quartz solid solution from a MgOâ€“Al₂O₃â€“SiO₂glass coated by a solâ€“gel ZrO₂layer. CrystEngComm, 2016, 18, 5492-5501.	2.6	12
10	Structural evolution of CaF2 nanoparticles during the photoinduced crystallization of a Na2Oâ€“K2Oâ€“CaOâ€“CaF2â€“Al2O3â€“ZnOâ€“SiO2 glass. Journal of Materials Science, 2017, 52, 13390-13401.	3.7	12
11	Crystallisation of Ba1-xSrxZn2Si2O7 from BaO/SrO/ZnO/SiO2 glass with different ZrO2 and TiO2 concentrations. Solid State Sciences, 2018, 78, 107-115.	3.2	11
12	Coreâ€“shell structures with metallic silver as nucleation agent of low expansion phases in BaO/SrO/ZnO/SiO₂ glasses. CrystEngComm, 2019, 21, 4373-4386.	2.6	9
13	Role of Tin Oxide as a Nucleating Agent with Low Solubility in BaOâ€“SrOâ€“ZnOâ€“SiO₂ Glasses Studied by Electron and X-ray Microscopy. Crystal Growth and Design, 2019, 19, 1815-1824.	3.0	7
14	Morphology, topography, and crystal rotation during surface crystallization of BaO/SrO/ZnO/SiO2 glass. CrystEngComm, 2019, 21, 1320-1328.	2.6	6
15	The acceleration of crystal growth of gold-doped glasses within the system BaO/SrO/ZnO/SiO2. Journal of the European Ceramic Society, 2019, 39, 554-562.	5.7	6
16	The effect of different platinum concentrations as nucleation agent in the BaO/SrO/ZnO/SiO2 glass system. Journal of Materials Science, 2018, 53, 11204-11215.	3.7	5
17	Surface and bulk crystallization of Ba1-xSrxZn2Si2O7 from glasses in the system BaO/SrO/ZnO/SiO2 doped with Nb2O5 or Ta2O5. Ceramics International, 2019, 45, 7580-7587.	4.8	5
18	Replica Extraction Method on Nanostructured Gold Coatings and Orientation Determination Combining SEM and TEM Techniques. Microscopy and Microanalysis, 2014, 20, 1654-1661.	0.4	4

#	Article	IF	Citations
19	Photoinduced formation of silver nanoparticles in a new Na_2O/K_2O/CaO/CaF_2/Al_2O_3/ZnO/SiO_2 photo thermal refractive glass: evidence of Ag - AgBr core shell structures. Optical Materials Express, 2017, 7, 4427.	3.0	4
20	Microstructure investigation and fluorescence properties of europium-doped scheelite crystals in glass-ceramics made under different synthesis conditions. Journal of Luminescence, 2021, 238, 118244.	3.1	4
21	The effect of thermal annealing and hydrogen on the morphology and the optical properties of thin palladium layers. Materials Letters, 2013, 110, 114-116.	2.6	3
22	Optical hydrogen sensing with modified Pd-layers: A kinetic study of roughened layers and dewetted nanoparticle films. Sensors and Actuators B: Chemical, 2014, 197, 95-103.	7.8	3
23	Silver-enhanced nucleation and morphology control of surface crystallized Ba0.5Sr0.5Zn2Si2O7 from 8 BaOÂ·8 SrOÂ·34 ZnOÂ·50 SiO2 glass. Ceramics International, 2019, 45, 18760-18766.	4.8	3
24	Microfluidic plasmon sensors prepared by dewetting of metal films during hot-embossing of glass. Sensors and Actuators B: Chemical, 2014, 202, 365-372.	7.8	2
25	Growth-front hopping via stress-induced nucleation illustrated for the crystallization of Ba1-xSrxZn2Si2O7 from a glass in the BaO-SrO-ZnO-SiO2 system. Ceramics International, 2018, 44, 19970-19980.	4.8	2
26	Silver doped glasses from the system BaO/SrO/ZnO/SiO2 â€“ The influence of Sb, Sn, and Ta on the formation of core-shell structures. Ceramics International, 2021, 47, 1126-1132.	4.8	2