Robert Klement

List of Publications by Year
in descending order

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42	657	567281 15	610901 24
papers	citations	h-index	g-index

42	42	42	632
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spectroscopic and magnetic properties and structure of a five-coordinate, O2-binding cobalt(II) Schiff base complex and of the copper(II) analogue. Inorganica Chimica Acta, 1998, 278, 127-135.	2.4	46
2	Copper(II) and Cobalt(II) Complexes with Derivatives of Salen and Tetrahydrosalen: An Electron Spin Resonance, Magnetic Susceptibility, and Quantum Chemical Study. The Journal of Physical Chemistry, 1995, 99, 137-143.	2.9	45
3	Luminescent Er 3+ doped transparent alumina ceramics. Journal of the European Ceramic Society, 2017, 37, 2695-2703.	5.7	44
4	Cobalt(II) Complexes with Substituted Salen-Type Ligands and Their Dioxygen Affinity inN,N-Dimethylformamide at Various Temperatures. European Journal of Inorganic Chemistry, 2005, 2005, 1459-1467.	2.0	42
5	The spectroscopic and structural properties of copper(II) complexes of the novel tridentate (ONO) pyridine N-oxide ligand Hpoxap. Polyhedron, 2002, 21, 1561-1571.	2.2	38
6	Luminescent rare-earth-doped transparent alumina ceramics. Journal of the European Ceramic Society, 2016, 36, 2975-2980.	5.7	34
7	Photoluminescence and optical properties of Eu3+/Eu2+-doped transparent Al2O3 ceramics. Journal of the European Ceramic Society, 2021, 41, 4896-4906.	5.7	29
8	Quantitative electron paramagnetic resonance (EPR) spectrometry with a TE104 double rectangular cavity Part 2. Analysis of sample and TE104 cavity error sources associated with the movement of line-like samples into the TE104 cavity. Analytica Chimica Acta, 1996, 333, 253-265.	5.4	26
9	Quantitative electron paramagnetic resonance (EPR) spectrometry with a TE104 double rectangular cavity Part 1. A simple alignment procedure for the precision positioning of the sample. Analytica Chimica Acta, 1996, 333, 249-252.	5.4	25
10	Processing and properties of luminescent Cr3+ doped transparent alumina ceramics. Journal of the European Ceramic Society, 2020, 40, 2573-2580.	5.7	24
11	Luminescent Eu3+-doped transparent alumina ceramics with high hardness. Journal of the European Ceramic Society, 2017, 37, 4271-4277.	5.7	22
12	Gehlenite:Eu3+ phosphors from a silicone resin and nano-sized fillers. Optical Materials, 2014, 36, 1243-1249.	3.6	20
13	Preparation and characterization of Yb2O3â€“Al2O3 glasses by the Pechini solâ€“gel method combined with flame synthesis. Ceramics International, 2014, 40, 6179-6184.	4.8	19
14	Er- and Nd-doped yttrium aluminosilicate glasses: Preparation and characterization. Optical Materials, 2011, 33, 1872-1878.	3.6	18
15	Analysis of red mud doped Bi2O3-B2O3-BaO glasses for application as glass solder in radiation shield repair using MCNPX simulation. Ceramics International, 2019, 45, 7619-7626.	4.8	18
16	Al2O3â€“SiC composites prepared by infiltration of pre-sintered alumina with a poly(allyl)carbosilane. Journal of the European Ceramic Society, 2011, 31, 111-119.	5.7	15
17	Luminescent rare-earth ions doped Al2O3â€“Y2O3â€“SiO2 glass microspheres prepared by flame synthesis. Ceramics International, 2014, 40, 6005-6012.	4.8	14
18	Photoluminescence of (ZnO)X-Z(SiO2)Y:(MnO)Z green phosphors prepared by direct thermal synthesis: The effect of ZnO/SiO2 ratio and Mn2+ concentration on luminescence. Ceramics International, 2016, 42, 16852-16860.	4.8	13

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19	Crystallization kinetics of yttrium aluminate glasses. Journal of Thermal Analysis and Calorimetry, 2018, 133, 227-236.	3.6	13
20	Optical and mechanical properties of mn-doped transparent alumina and their comparison with selected rare earth and transient metal doped aluminas. Journal of the European Ceramic Society, 2020, 40, 4894-4900.	5.7	12
21	Flame-spraying synthesis of aluminate glasses in the Al2O3â€“La2O3 system. Ceramics International, 2012, 38, 5543-5549.	4.8	11
22	Thermal behaviour of yttrium aluminate glasses studied by DSC, high-temperature X-ray diffraction, SEM and SEMâ€“EDS. Journal of Thermal Analysis and Calorimetry, 2017, 128, 1407-1415.	3.6	11
23	Crystallization and visibleâ€“near-infrared luminescence of Bi-doped gehlenite glass. Royal Society Open Science, 2018, 5, 181667.	2.4	11
24	Spectroscopic and thermal analysis of lead-free multipurpose radiation shielding glasses. Ceramics International, 2019, 45, 5332-5338.	4.8	10
25	Enhancement of rare earth ions hosting potential of B2O3 added germanium based glasses: A detailed optical analysis. Journal of Alloys and Compounds, 2021, 883, 160800.	5.5	10
26	Crystallization kinetics of glass microspheres with yttrium aluminium garnet (YAG) composition. Journal of Thermal Analysis and Calorimetry, 2018, 131, 1115-1123.	3.6	9
27	Y3Al5O12-Î±-Al2O3 composites with fine-grained microstructure by hot pressing of Al2O3-Y2O3 glass microspheres. Journal of the European Ceramic Society, 2020, 40, 852-860.	5.7	9
28	Aluminate glass based phosphors for LED applications. Journal of the European Ceramic Society, 2016, 36, 2969-2973.	5.7	8
29	Crystallization kinetics of binary La2O3-Al2O3 glass. Journal of Non-Crystalline Solids, 2018, 501, 55-61.	3.1	8
30	Er 3+ /Yb 3+ coâ€doped oxyfluoro tellurite glasses: Analysis of optical temperature sensing based on upâ€conversion luminescence. International Journal of Applied Glass Science, 2021, 12, 462-471.	2.0	8
31	Complexes with New Chelate Anionic Ligands Formed by Nucleophilic Addition in Copper(II) Coordination Sphere. III. The Crystal Structures of (2,2'-Bipyridine-N,N')(cyanato-N)[methyl(2-cyano-2-imidoxy Ethaneimidate-N,N')]copper(II) and (2,2'-Bipyridine-N,N')(2-cyano-2-imidoxy Ethaneimidate-N,N')copper(II). Collection of Czechoslovak Chemical Communications, 1999, 64, 600-612.	1.0	6
32	Viscous flow spark plasma sintering of glass microspheres with YAG composition and high tendency to crystallization. Journal of the European Ceramic Society, 2021, 41, 1537-1542.	5.7	6
33	Structure and fluorescence properties of Dyâ€doped alkalineâ€earth borophosphate glasses. International Journal of Applied Glass Science, 2021, 12, 472-484.	2.0	5
34	Photoluminescence of rareâ€earth/transition metalâ€doped transparent/translucent polycrystalline Al₂O₃ ceramics: A review. Journal of the American Ceramic Society, 2023, 106, 172-185.	3.8	5
35	Al 2 O 3 -SiC nanocomposites. , 2018, , 49-92.		4
36	In Situ Synthesis of Î²-Na1.5Y1.5F6: Er3+ Crystals in Oxyfluoride Silicate Glass for Temperature Sensors and Their Spectral Conversion and Optical Thermometry Analysis. Molecules, 2021, 26, 6901.	3.8	4

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37	ZnO-doped Y2O3 ceramic: A prospective Warm White Light Fluorescent Material. Journal of the European Ceramic Society, 2022, 42, 2478-2486.	5.7	4
38	Luminescent Dy3+ and Dy3+/Cr3+ doped transparent Al2O3 ceramics: Microstructure and optical properties. Journal of the European Ceramic Society, 2022, 42, 4343-4352.	5.7	4
39	Crystallization kinetics of binary Yb2O3â€“Al2O3 glass. Journal of Thermal Analysis and Calorimetry, 2020, 142, 2141-2148.	3.6	2
40	Crystallization kinetics of gehlenite glass microspheres. Journal of Thermal Analysis and Calorimetry, 2020, 142, 1003-1010.	3.6	2
41	Thermal behaviour and photoluminescence properties of Er- and Nd-doped yttrium aluminate glasses. Journal of Thermal Analysis and Calorimetry, 2020, 142, 129-138.	3.6	2
42	Glassâ€ceramic Ce³⁺â€doped YAGâ€Al₂O₃ composites prepared by sintering of glass microspheres. International Journal of Applied Glass Science, 2021, 12, 497-508.	2.0	1