Els Bruneel

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Effect of limestone fillers on microstructure and permeability due to carbonation of cement pastes under controlled CO 2 pressure conditions. Construction and Building Materials, 2015, 82, 376-390.	7.2	105
2	Synthesis and thermal expansion of ZrO2/ZrW2O8 composites. Journal of the European Ceramic Society, 2005, 25, 3605-3610.	5.7	99
3	Superconducting YBa ₂ Cu ₃ O _{7–δ} Nanocomposites Using Preformed ZrO ₂ Nanocrystals: Growth Mechanisms and Vortex Pinning Properties. Advanced Electronic Materials, 2016, 2, 1600161.	5.1	55
4	Evaluation of the phase composition of BPSCCO bulk samples by XRD- and susceptibility analysis. Applied Superconductivity, 1996, 4, 185-190.	0.5	39
5	Bimetallic–Organic Framework as a Zero‣eaching Catalyst in the Aerobic Oxidation of Cyclohexene. ChemCatChem, 2013, 5, 3657-3664.	3.7	38
6	Nonvacuum-based deposition techniques for superconducting ceramic coatings. Pure and Applied Chemistry, 2002, 74, 2101-2109.	1.9	35
7	Determination of the number of unpaired electrons in metal-complexes. A comparison between the Evans' method and susceptometer results. Chemical Physics, 2005, 315, 286-292.	1.9	33
8	Virus Removal by Biogenic Cerium. Environmental Science & Technology, 2010, 44, 6350-6356.	10.0	30
9	Synergy Effects of the Mixture of Bismuth Molybdate Catalysts with SnO ₂ /ZrO ₂ /MgO in Selective Propene Oxidation and the Connection between Conductivity and Catalytic Activity. Industrial & Engineering Chemistry Research, 2016, 55, 4846-4855.	3.7	30
10	Ultra stable ordered mesoporous phenol/formaldehyde polymers as a heterogeneous support for vanadium oxide. Chemical Communications, 2008, , 4475.	4.1	26
11	CeO2Buffer Layers for HTSC by an Aqueous Sol-Gel Method – Chemistry and Microstructure. European Journal of Inorganic Chemistry, 2010, 2010, 233-241.	2.0	25
12	Role of shaping in the preparation of heterogeneous catalysts: Tableting and slip-casting of oxidation catalysts. Catalysis Today, 2015, 246, 81-91.	4.4	25
13	X-ray Photoelectron Spectroscopy (XPS) Depth Profiling for Evaluation of La2Zr2O7 Buffer Layer Capacity. Materials, 2012, 5, 364-376.	2.9	23
14	Activated MnO2-Co3O4-CeO2 catalysts for the treatment of CO at room temperature. Applied Catalysis A: General, 2014, 480, 34-41.	4.3	22
15	Structure and phase transition of Sn-substituted Zr(1â^'x)SnxW2O8. Journal of Materials Chemistry, 2004, 14, 2988-2994.	6.7	21
16	Doped sol–gel films vs. powders TiO 2 : On the positive effect induced by the presence of a substrate. Journal of Environmental Chemical Engineering, 2016, 4, 449-459.	6.7	20
17	Preparation and characterization of Yb2O3–Al2O3 glasses by the Pechini sol–gel method combined with flame synthesis. Ceramics International, 2014, 40, 6179-6184.	4.8	19
18	Mechanical properties of Bi-2223/Ag bulk composites. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1063-1066.	1.2	18

Els Bruneel

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19	Aqueous sol–gel processing of precursor oxides for ZrW2O8 synthesis. Journal of Sol-Gel Science and Technology, 2007, 43, 347-353.	2.4	18
20	Influence of Graphite as a Shaping Agent of Bi Molybdate Powders on Their Mechanical, Physicochemical, and Catalytic Properties. Industrial & Engineering Chemistry Research, 2011, 50, 5467-5477.	3.7	15
21	Mechanical and superconducting properties of BiPbSrCaCuO-PE and BiPbSrCaCuO-MgO composites. Superconductor Science and Technology, 1998, 11, 88-93.	3.5	13
22	Processing effects on the microstructure observed during densification of the NTE-compound ZrW2O8. Crystal Engineering, 2002, 5, 469-478.	0.7	12
23	Monometallic Cerium Layered Double Hydroxide Supported Pd-Ni Nanoparticles as High Performance Catalysts for Lignin Hydrogenolysis. Materials, 2020, 13, 691.	2.9	12
24	Deposition of a Cu/Mo/Ce catalyst for diesel soot oxidation on a sintered metal fiber filter with a CeO2 anti corrosion coating. Catalysis Communications, 2012, 25, 111-117.	3.3	11
25	Improved photocatalytic activity of polymer-modified TiO2 films obtained by a wet chemical route. Journal of Materials Science, 2012, 47, 6366-6374.	3.7	11
26	Thermal behaviour of yttrium aluminate glasses studied by DSC, high-temperature X-ray diffraction, SEM and SEM–EDS. Journal of Thermal Analysis and Calorimetry, 2017, 128, 1407-1415.	3.6	11
27	Crystallization and visible–near-infrared luminescence of Bi-doped gehlenite glass. Royal Society Open Science, 2018, 5, 181667.	2.4	11
28	The effect of processing conditions on the properties of spray dried Nd1Ba2Cu3Oy/Ag composite superconductors. Journal of the European Ceramic Society, 2004, 24, 1823-1826.	5.7	10
29	Annealing of sulfide stabilized colloidal semiconductor nanocrystals. Journal of Materials Chemistry C, 2014, 2, 178-183.	5.5	9
30	Y3Al5O12-α-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
31	Comparison of plasma sprayed and flame sprayed YBa2Cu3O7â^'x targets for rotatable magnetron sputtering. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1221-1224.	1.2	8
32	Origin of the nanocrystalline interface in superconducting Bi-2223/Ag composites: a SEM/HREM study. Superconductor Science and Technology, 2004, 17, 750-755.	3.5	6
33	Crystallization kinetics of Ni-doped Ca2Al2SiO7 glass microspheres. Journal of Thermal Analysis and Calorimetry, 2020, 142, 2111-2121.	3.6	6
34	Rotatable magnetron sputtering of YBa2Cu3O7â^'x thin films on single crystal substrates. Physica C: Superconductivity and Its Applications, 2002, 372-376, 1067-1070.	1.2	5
35	Synthesis and characterization of copper, polyimide and TIPS-pentacene layers for the development of a solution processed fibrous transistor. AIP Advances, 2011, 1, 042119.	1.3	5
36	The Influence of Deposition Methods of Support Layer on Cordierite Substrate on the Characteristics of a MnO2–NiO–Co3O4/Ce0.2Zr0.8O2/Cordierite Three Way Catalyst. Materials, 2014, 7, 6237-6253.	2.9	3

Els Bruneel

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37	Polyimide Dielectric Layer on Filaments for Organic Field Effect Transistors: Choice of Solvent, Solution Composition and Dip-Coating Speed. Autex Research Journal, 2014, 14, 121-134.	1.1	3
38	Importance of the pyrolysis for microstructure and superconducting properties of CSD-grown GdBa2Cu3O7â^'x-HfO2 nanocomposite films by the ex-situ approach. Scientific Reports, 2020, 10, 19469.	3.3	3
39	Screening properties and critical current of superconductor-MgO composites. Solid State Sciences, 1999, 1, 385-389.	0.7	2
40	Simulation and study of the percolation effect in the magnetic susceptibility of high-temperature superconducting composites. Physical Review B, 2000, 61, 9176-9180.	3.2	2
41	Accurate determination of the composition of Y–Ba–Cu–O superconductor by spectrophotometry, gravimetry and flame AAS. Superconductor Science and Technology, 2005, 18, 907-911.	3.5	2
42	Essential Building Blocks of Fibrous Transistors, Part I: Gate Layer. Advances in Science and Technology, 2012, 80, 83-89.	0.2	2
43	Effects of Varied Cleaning Methods on Ni-5% W Substrate for Dip-Coating of Water-based Buffer Layers: An X-ray Photoelectron Spectroscopy Study. Nanomaterials, 2012, 2, 251-267.	4.1	2
44	Surface Morphology of Polyimide Thin Film Dip-Coated on Polyester Filament for Dielectric Layer in Fibrous Organic Field Effect Transistor. Autex Research Journal, 2014, 14, 152-160.	1.1	2
45	Crystallization kinetics of binary Yb2O3–Al2O3 glass. Journal of Thermal Analysis and Calorimetry, 2020, 142, 2141-2148.	3.6	2
46	Identification of surface active components in glass forming melts by thermodynamic model. Journal of Non-Crystalline Solids, 2021, 551, 120415.	3.1	2
47	Structure and magnetic properties of Bi-doped calcium aluminosilicate glass microspheres. Pure and Applied Chemistry, 2022, 94, 197-213.	1.9	2
48	Superconducting and Magnetic Properties of Sn-Doped EuBa2Cu3O7-δ Compound. Acta Physica Polonica A, 2017, 131, 1045-1047.	0.5	1
49	An Evaluation of Nanoparticle Distribution in Solution-Derived YBa2Cu3O7â^î^ Nanocomposite Thin Films by XPS Depth Profiling in Combination with TEM Analysis. Crystals, 2022, 12, 410.	2.2	1
50	Influence of high level Ag doping on the superconducting properties of YBa2Cu3O7/Ag composites. Solid State Sciences, 2001, 3, 453-459.	0.7	0