

Els Bruneel

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

875
citations

430442

18
h-index

500791

28
g-index

51
all docs

51
docs citations

51
times ranked

1139
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of limestone fillers on microstructure and permeability due to carbonation of cement pastes under controlled CO ₂ pressure conditions. <i>Construction and Building Materials</i> , 2015, 82, 376-390.	3.2	105
2	Synthesis and thermal expansion of ZrO ₂ /ZrW ₂ O ₈ composites. <i>Journal of the European Ceramic Society</i> , 2005, 25, 3605-3610.	2.8	99
3	Superconducting YBa ₂ Cu ₃ O _{7-δ} Nanocomposites Using Preformed ZrO ₂ Nanocrystals: Growth Mechanisms and Vortex Pinning Properties. <i>Advanced Electronic Materials</i> , 2016, 2, 1600161.	2.6	55
4	Evaluation of the phase composition of BPSCCO bulk samples by XRD- and susceptibility analysis. <i>Applied Superconductivity</i> , 1996, 4, 185-190.	0.5	39
5	Bimetallic [©] Organic Framework as a Zero [©] Leaching Catalyst in the Aerobic Oxidation of Cyclohexene. <i>ChemCatChem</i> , 2013, 5, 3657-3664.	1.8	38
6	Nonvacuum-based deposition techniques for superconducting ceramic coatings. <i>Pure and Applied Chemistry</i> , 2002, 74, 2101-2109.	0.9	35
7	Determination of the number of unpaired electrons in metal-complexes. A comparison between the Evans [™] method and susceptometer results. <i>Chemical Physics</i> , 2005, 315, 286-292.	0.9	33
8	Virus Removal by Biogenic Cerium. <i>Environmental Science & Technology</i> , 2010, 44, 6350-6356.	4.6	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. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4846-4855.	1.8	30
10	Ultra stable ordered mesoporous phenol/formaldehyde polymers as a heterogeneous support for vanadium oxide. <i>Chemical Communications</i> , 2008, , 4475.	2.2	26
11	CeO ₂ Buffer Layers for HTSC by an Aqueous Sol-Gel Method [©] Chemistry and Microstructure. <i>European Journal of Inorganic Chemistry</i> , 2010, 2010, 233-241.	1.0	25
12	Role of shaping in the preparation of heterogeneous catalysts: Tableting and slip-casting of oxidation catalysts. <i>Catalysis Today</i> , 2015, 246, 81-91.	2.2	25
13	X-ray Photoelectron Spectroscopy (XPS) Depth Profiling for Evaluation of La ₂ Zr ₂ O ₇ Buffer Layer Capacity. <i>Materials</i> , 2012, 5, 364-376.	1.3	23
14	Activated MnO ₂ -Co ₃ O ₄ -CeO ₂ catalysts for the treatment of CO at room temperature. <i>Applied Catalysis A: General</i> , 2014, 480, 34-41.	2.2	22
15	Structure and phase transition of Sn-substituted Zr(1- δ)Sn _x W ₂ O ₈ . <i>Journal of Materials Chemistry</i> , 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. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 449-459.	3.3	20
17	Preparation and characterization of Yb ₂ O ₃ [©] Al ₂ O ₃ glasses by the Pechini sol [©] gel method combined with flame synthesis. <i>Ceramics International</i> , 2014, 40, 6179-6184.	2.3	19
18	Mechanical properties of Bi-2223/Ag bulk composites. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 372-376, 1063-1066.	0.6	18

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19	Aqueous sol-gel processing of precursor oxides for ZrW ₂ O ₈ synthesis. <i>Journal of Sol-Gel Science and Technology</i> , 2007, 43, 347-353.	1.1	18
20	Influence of Graphite as a Shaping Agent of Bi Molybdate Powders on Their Mechanical, Physicochemical, and Catalytic Properties. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 5467-5477.	1.8	15
21	Mechanical and superconducting properties of BiPbSrCaCuO-PE and BiPbSrCaCuO-MgO composites. <i>Superconductor Science and Technology</i> , 1998, 11, 88-93.	1.8	13
22	Processing effects on the microstructure observed during densification of the NTE-compound ZrW ₂ O ₈ . <i>Crystal Engineering</i> , 2002, 5, 469-478.	0.7	12
23	Monometallic Cerium Layered Double Hydroxide Supported Pd-Ni Nanoparticles as High Performance Catalysts for Lignin Hydrogenolysis. <i>Materials</i> , 2020, 13, 691.	1.3	12
24	Deposition of a Cu/Mo/Ce catalyst for diesel soot oxidation on a sintered metal fiber filter with a CeO ₂ anti corrosion coating. <i>Catalysis Communications</i> , 2012, 25, 111-117.	1.6	11
25	Improved photocatalytic activity of polymer-modified TiO ₂ films obtained by a wet chemical route. <i>Journal of Materials Science</i> , 2012, 47, 6366-6374.	1.7	11
26	Thermal behaviour of yttrium aluminate glasses studied by DSC, high-temperature X-ray diffraction, SEM and SEM-EDS. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 128, 1407-1415.	2.0	11
27	Crystallization and visible-near-infrared luminescence of Bi-doped gehlenite glass. <i>Royal Society Open Science</i> , 2018, 5, 181667.	1.1	11
28	The effect of processing conditions on the properties of spray dried Nd ₁ Ba ₂ Cu ₃ O _y /Ag composite superconductors. <i>Journal of the European Ceramic Society</i> , 2004, 24, 1823-1826.	2.8	10
29	Annealing of sulfide stabilized colloidal semiconductor nanocrystals. <i>Journal of Materials Chemistry C</i> , 2014, 2, 178-183.	2.7	9
30	Y ₃ Al ₅ O ₁₂ -Al ₂ O ₃ composites with fine-grained microstructure by hot pressing of Al ₂ O ₃ -Y ₂ O ₃ glass microspheres. <i>Journal of the European Ceramic Society</i> , 2020, 40, 852-860.	2.8	9
31	Comparison of plasma sprayed and flame sprayed YBa ₂ Cu ₃ O _{7-x} targets for rotatable magnetron sputtering. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 372-376, 1221-1224.	0.6	8
32	Origin of the nanocrystalline interface in superconducting Bi-2223/Ag composites: a SEM/HREM study. <i>Superconductor Science and Technology</i> , 2004, 17, 750-755.	1.8	6
33	Crystallization kinetics of Ni-doped Ca ₂ Al ₂ Si ₇ O ₇ glass microspheres. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 2111-2121.	2.0	6
34	Rotatable magnetron sputtering of YBa ₂ Cu ₃ O _{7-x} thin films on single crystal substrates. <i>Physica C: Superconductivity and Its Applications</i> , 2002, 372-376, 1067-1070.	0.6	5
35	Synthesis and characterization of copper, polyimide and TIPS-pentacene layers for the development of a solution processed fibrous transistor. <i>AIP Advances</i> , 2011, 1, 042119.	0.6	5
36	The Influence of Deposition Methods of Support Layer on Cordierite Substrate on the Characteristics of a MnO ₂ -NiO-Co ₃ O ₄ /Ce _{0.2} Zr _{0.8} O ₂ /Cordierite Three Way Catalyst. <i>Materials</i> , 2014, 7, 6237-6253.	1.3	3

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37	Polyimide Dielectric Layer on Filaments for Organic Field Effect Transistors: Choice of Solvent, Solution Composition and Dip-Coating Speed. <i>Autex Research Journal</i> , 2014, 14, 121-134.	0.6	3
38	Importance of the pyrolysis for microstructure and superconducting properties of CSD-grown GdBa ₂ Cu ₃ O _{7-x} HfO ₂ nanocomposite films by the ex-situ approach. <i>Scientific Reports</i> , 2020, 10, 19469.	1.6	3
39	Screening properties and critical current of superconductor-MgO composites. <i>Solid State Sciences</i> , 1999, 1, 385-389.	0.8	2
40	Simulation and study of the percolation effect in the magnetic susceptibility of high-temperature superconducting composites. <i>Physical Review B</i> , 2000, 61, 9176-9180.	1.1	2
41	Accurate determination of the composition of Y-Ba-Cu-O superconductor by spectrophotometry, gravimetry and flame AAS. <i>Superconductor Science and Technology</i> , 2005, 18, 907-911.	1.8	2
42	Essential Building Blocks of Fibrous Transistors, Part I: Gate Layer. <i>Advances in Science and Technology</i> , 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. <i>Nanomaterials</i> , 2012, 2, 251-267.	1.9	2
44	Surface Morphology of Polyimide Thin Film Dip-Coated on Polyester Filament for Dielectric Layer in Fibrous Organic Field Effect Transistor. <i>Autex Research Journal</i> , 2014, 14, 152-160.	0.6	2
45	Crystallization kinetics of binary Yb ₂ O ₃ -Al ₂ O ₃ glass. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 2141-2148.	2.0	2
46	Identification of surface active components in glass forming melts by thermodynamic model. <i>Journal of Non-Crystalline Solids</i> , 2021, 551, 120415.	1.5	2
47	Structure and magnetic properties of Bi-doped calcium aluminosilicate glass microspheres. <i>Pure and Applied Chemistry</i> , 2022, 94, 197-213.	0.9	2
48	Superconducting and Magnetic Properties of Sn-Doped EuBa ₂ Cu ₃ O _{7-δ} Compound. <i>Acta Physica Polonica A</i> , 2017, 131, 1045-1047.	0.2	1
49	An Evaluation of Nanoparticle Distribution in Solution-Derived YBa ₂ Cu ₃ O _{7-δ} Nanocomposite Thin Films by XPS Depth Profiling in Combination with TEM Analysis. <i>Crystals</i> , 2022, 12, 410.	1.0	1
50	Influence of high level Ag doping on the superconducting properties of YBa ₂ Cu ₃ O ₇ /Ag composites. <i>Solid State Sciences</i> , 2001, 3, 453-459.	0.8	0