Marlies Van Bael

List of Publications by Citations

212 papers	3,649 citations	31 h-index	46 g-index
225 ext. papers	4,028 ext. citations	4.7 avg, IF	4.9 L-index

#	Paper	IF	Citations
212	Towards efficient hybrid solar cells based on fully polymer infiltrated ZnO nanorod arrays. *Advanced Materials*, **2011**, 23, 2802-5	24	99
211	Preparation and benchmarking of thin film supported PTMSP-silica pervaporation membranes. *Journal of Membrane Science*, **2012**, 389, 265-271	9.6	97
210	Synthesis of ZnO nanopowder via an aqueous acetate–citrate gelation method. *Materials Research Bulletin*, **2002**, 37, 901-914	5.1	94
209	Synthesis of ZnO nanorods from aqueous solution. *Materials Letters*, **2007**, 61, 2624-2627	3.3	90
208	Matrix-Isolation FTIR Studies and Theoretical Calculations of Hydrogen-Bonded Complexes of Imidazole. A Comparison between Experimental Results and Different Calculation Methods. *Journal of Physical Chemistry A*, **1997**, 101, 2397-2413	2.8	86
207	Self-assembled multilayers of vertically aligned semiconductor nanorods on device-scale areas. *Advanced Materials*, **2011**, 23, 2205-9	24	77
206	Evolution of Metal-Trifluoroacetate Precursors in the Thermal Decomposition toward High-Performance YBa2Cu3O7 Superconducting Films. *Chemistry of Materials*, **2010**, 22, 1686-1694	9.6	70
205	Thermal decomposition of the ammonium zinc acetate citrate precursor for aqueous chemical solution deposition of ZnO. *Journal of Materials Science*, **2002**, 37, 81-88	4.3	70
204	High flux composite PTMSP-silica nanohybrid membranes for the pervaporation of ethanol/water mixtures. *Journal of Membrane Science*, **2010**, 351, 160-167	9.6	68
203	Influence of fullerene photodimerization on the PCBM crystallization in polymer: Fullerene bulk heterojunctions under thermal stress. *Journal of Polymer Science, Part B: Polymer Physics*, **2013**, 51, 1209-1214	2.6	64
202	Effects of precursor chemistry and thermal treatment conditions on obtaining phase pure bismuth ferrite from aqueous gel precursors. *Journal of the European Ceramic Society*, **2009**, 29, 3007-3013	6	58
201	Study of the decomposition of an aqueous metal–chelate gel precursor for (Bi,La)4Ti3O12 by means of TGA–FTIR, TGA–MS and HT-DRIFT. *Thermochimica Acta*, **2003**, 397, 143-153	2.9	58
200	Influence of incorporation of ZnO nanoparticles and biaxial orientation on mechanical and oxygen barrier properties of polypropylene films for food packaging applications. *Journal of Applied Polymer Science*, **2011**, 120, 1616-1623	2.9	55
199	Aqueous Chemical Solution Deposition of Ferroelectric Thin Films. *Integrated Ferroelectrics*, **2002**, 45, 113-122	0.8	52
198	Eutectogels: A New Class of Solid Composite Electrolytes for Li/Li-Ion Batteries. *Chemistry of Materials*, **2018**, 30, 655-662	9.6	51
197	Phase formation of ferroelectric perovskite0.75 Pb(Zn1/3,Nb2/3)O3–0.25BaTiO3 prepared by aqueous solution–gel chemistry. *Journal of Materials Chemistry*, **2001**, 11, 1192-1197		46
196	An aqueous solution–gel citratoperoxo–Ti(IV) precursor: synthesis, gelation, thermo-oxidative decomposition and oxide crystallization. *Journal of Sol-Gel Science and Technology*, **2007**, 44, 65-74	2.3	44

195	Atomic Layer Deposition of Gd-Doped HfO[sub 2] Thin Films. *Journal of the Electrochemical Society*, **2010**, 157, G105	3.9	42
194	Influence of Interface Morphology onto the Photovoltaic Properties of Nanopatterned ZnO/Poly(3-hexylthiophene) Hybrid Solar Cells. An Impedance Spectroscopy Study. *Journal of Physical Chemistry C*, **2011**, 115, 16695-16700	3.8	40
193	Sol□gel (combustion) synthesis and characterization of different alkaline earth metal (Ca, Sr, Ba) stannates. *Journal of Sol-Gel Science and Technology*, **2012**, 64, 643-652	2.3	38
192	Synthesis of thin dense titania films via an aqueous solution-gel method. *Journal of Sol-Gel Science and Technology*, **2007**, 41, 43-48	2.3	38
191	Structural and optical properties of DNA layers covalently attached to diamond surfaces. *Langmuir*, **2008**, 24, 7269-77	4	35
190	Water-based wet chemical synthesis of (doped) ZnO nanostructures. *Journal of Sol-Gel Science and Technology*, **2006**, 39, 41-47	2.3	35
189	Thermal behaviour of arsenic oxides (As2O5 and As2O3) and the influence of reducing agents (glucose and activated carbon). *Thermochimica Acta*, **2004**, 414, 145-153	2.9	34
188	Matrix-Isolation FT□IR Studies and Theoretical Calculations of Hydrogen-Bonded Complexes of Molecules Modeling Adenine Tautomers. 1. H-Bonding of Benzimidazoles with H2O in Ar Matrices. *Journal of Physical Chemistry A*, **1998**, 102, 4863-4877	2.8	34
187	Hydrothermal synthesis of ZnO nanorods: a statistical determination of the significant parameters in view of reducing the diameter. *Nanotechnology*, **2009**, 20, 055608	3.4	33
186	Study of interfacial reactions and phase stabilization of mixed Sc, Dy, Hf high-k oxides by attenuated total reflectance infrared spectroscopy. *Applied Surface Science*, **2009**, 255, 7812-7817	6.7	33
185	Ground-state charge-transfer complex formation in hybrid poly(3-hexyl thiophene):titanium dioxide solar cells. *Applied Physics Letters*, **2008**, 93, 223302	3.4	33
184	Synthesis of (Bi,La)4Ti3O12 by a new aqueous solution-gel route. *Journal of the European Ceramic Society*, **2004**, 24, 905-909	6	33
183	Aqueous Solution-Gel Synthesis of Strontium Bismuth Niobate (SrBi2Nb2O9). *Journal of Sol-Gel Science and Technology*, **2003**, 26, 1125-1129	2.3	33
182	Investigation of the ferroelectric□relaxor crossover in Ce-doped BaTiO3 ceramics by impedance spectroscopy and Raman study. *Phase Transitions*, **2013**, 86, 703-714	1.3	31
181	H2S exposure of a (100)Ge surface: Evidences for a (2□1) electrically passivated surface. *Applied Physics Letters*, **2007**, 90, 222105	3.4	31
180	Arsenic release during pyrolysis of CCA treated wood waste: current state of knowledge. *Journal of Analytical and Applied Pyrolysis*, **2003**, 68-69, 613-633	6	31
179	Synthesis of strontium bismuth niobate (SrBi2Nb2O9) using an aqueous acetate□itrate precursor gel: thermal decomposition and phase formation. *Thermochimica Acta*, **2005**, 426, 39-48	2.9	31
178	Aqueous solutions for low-temperature photoannealing of functional oxide films: reaching the 400 □C Si-technology integration barrier. *Journal of the American Chemical Society*, **2011**, 133, 12922-5	16.4	30

177	Dielectric Response of Ta[sub 2]O[sub 5], Nb[sub 2]O[sub 5], and NbTaO[sub 5] from First-Principles Investigations. *Journal of the Electrochemical Society*, **2010**, 157, G20	3.9	30
176	Relation between synthesis conditions, dopant position and charge carriers in aluminium-doped ZnO nanoparticles. *RSC Advances*, **2013**, 3, 15254	3.7	29
175	Photoluminescence of Pr 3+ -doped calcium and strontium stannates. *Journal of Luminescence*, **2016**, 172, 323-330	3.8	28
174	Hydrothermal synthesis of a concentrated and stable dispersion of TiO2 nanoparticles. *Chemical Engineering Journal*, **2013**, 223, 135-144	14.7	28
173	Factors Influencing the Conductivity of Aqueous Sol(ution)□Gel-Processed Al-Doped ZnO Films. *Chemistry of Materials*, **2014**, 26, 5839-5851	9.6	27
172	Diamond Nucleation by Carbon Transport from Buried Nanodiamond TiO2 Sol-Gel Composites. *Advanced Materials*, **2009**, 21, 670-673	24	27
171	Study of the decomposition of aqueous citratoperoxo-Ti(IV)-gel precursors for titania by means of TGA-MS and FTIR. *Thermochimica Acta*, **2007**, 456, 38-47	2.9	27
170	Synthesis of platelet-shaped boehmite and □alumina nanoparticles via an aqueous route. *Ceramics International*, **2008**, 34, 1971-1974	5.1	27
169	Synthesis of SrBi2Ta2O9 (SBT) by means of a soluble Ta(V) precursor. *Journal of the European Ceramic Society*, **2001**, 21, 2047-2049	6	27
168	Luminescence properties of Sm3+-doped alkaline earth ortho-stannates. *Optical Materials*, **2014**, 36, 1146-1152	3.3	26
167	Chemical Solution Deposition of ZnO Thin Films by an Aqueous Solution Gel Precursor Route. *Journal of Sol-Gel Science and Technology*, **2003**, 26, 523-526	2.3	26
166	The Formation of Ferroelectric Bismuth Titanate (Bi4Ti3O12) from an Aqueous Metal-Chelate Gel. *Journal of Sol-Gel Science and Technology*, **2003**, 26, 1103-1107	2.3	26
165	The use of Hi-Res TGA, TG-FTIR, HT-DRIFT and HT-XRD in the study of the decomposition of La2(C2O4)3□10H2O. *Thermochimica Acta*, **2000**, 354, 145-151	2.9	25
164	A novel explanation for the increased conductivity in annealed Al-doped ZnO: an insight into migration of aluminum and displacement of zinc. *Physical Chemistry Chemical Physics*, **2017**, 19, 27866-27877	2.6	23
163	Impact of Process Optimizations on the Electrical Performance of High-k Layers Deposited by Aqueous Chemical Solution Deposition. *Journal of the Electrochemical Society*, **2008**, 155, G91	3.9	23
162	The aqueous solution-gel synthesis of perovskite Pb(Zr1□,Tix)O3 (PZT). *Journal of Materials Science*, **2007**, 42, 624-632	4.3	23
161	Polymeric Backbone Eutectogels as a New Generation of Hybrid Solid-State Electrolytes. *Chemistry of Materials*, **2020**, 32, 3783-3793	9.6	22
160	Ti surface doping of LiNiMnO positive electrodes for lithium ion batteries.. *RSC Advances*, **2018**, 8, 7287-7300	3.7	22

159	A UV-absorber bismuth(III)-N-methyldiethanolamine complex as a low-temperature precursor for bismuth-based oxide thin films. *Journal of Materials Chemistry C*, **2014**, 2, 8750-8760	7.1	21
158	Towards high-performance biopackaging: barrier and mechanical properties of dual-action polycaprolactone/zinc oxide nanocomposites. *Polymers for Advanced Technologies*, **2012**, 23, 1422-1428	3.2	21
157	V6O13 films by control of the oxidation state from aqueous precursor to crystalline phase. *Dalton Transactions*, **2013**, 42, 959-68	4.3	21
156	Aqueous solution–gel preparation of ultrathin ZrO2 films for gate dielectric application. *Thin Solid Films*, **2008**, 516, 8343-8351	2.2	21
155	ZnO-Based Sunscreen: The Perfect Example To Introduce Nanoparticles in an Undergraduate or High School Chemistry Lab. *Journal of Chemical Education*, **2014**, 91, 259-263	2.4	20
154	Surface plasma pretreatment for enhanced diamond nucleation on AlN. *Applied Physics Letters*, **2013**, 102, 201609	3.4	20
153	Thermal behaviour of arsenic trioxide adsorbed on activated carbon. *Journal of Hazardous Materials* , **2009**, 166, 1238-43	12.8	20
152	Atomic Layer Deposition of Gadolinium Aluminate using Gd(iPrCp)3, TMA, and O3 or H2O. *Chemical Vapor Deposition*, **2010**, 16, 170-178		20
151	Formation and micro-Raman spectroscopic study of Aurivilius and fluorite-type SrBi2Nb2O9 nanocrystallites obtained using an amorphous citrate–route. *Journal of the European Ceramic Society*, **2006**, 26, 409-415	6	19
150	Gel Structure, Gel Decomposition and Phase Formation Mechanisms in the Aqueous Solution–Gel Route to Lanthanum Substituted Bismuth Titanate. *Journal of Sol-Gel Science and Technology*, **2005**, 33, 283-298	2.3	19
149	A study on the thermal sintering process of silver nanoparticle inkjet inks to achieve smooth and highly conducting silver layers. *Physica Status Solidi (A) Applications and Materials Science*, **2016**, 213, 1403-1409	1.6	19
148	Sunlight-Fueled, Low-Temperature Ru-Catalyzed Conversion of CO and H to CH with a High Photon-to-Methane Efficiency. *ACS Omega*, **2019**, 4, 7369-7377	3.9	18
147	Preparation of a porous nanocrystalline TiO2 layer by deposition of hydrothermally synthesized nanoparticles. *Journal of the European Ceramic Society*, **2007**, 27, 4529-4535	6	18
146	Aqueous chemical solution deposition of ultrathin lanthanide oxide dielectric films. *Journal of Materials Research*, **2007**, 22, 3484-3493	2.5	18
145	Synthesis of RuO2 and SrRuO3 powders by means of aqueous solution gel chemistry. *Journal of the European Ceramic Society*, **2004**, 24, 919-923	6	18
144	In Situ Mechanical Analysis of the Nanoscopic Solid Electrolyte Interphase on Anodes of Li-Ion Batteries. *Advanced Science*, **2019**, 6, 1900190	13.6	17
143	Effect of annealing atmosphere on LiMn2O4 for thin film Li-ion batteries from aqueous chemical solution deposition. *Journal of Materials Chemistry A*, **2016**, 4, 18457-18469	13	17
142	Substitutional phosphorus incorporation in nanocrystalline CVD diamond thin films. *Physica Status Solidi - Rapid Research Letters*, **2014**, 8, 705-709	2.5	17

141	Fully water-processable metal oxide nanorods/polymer hybrid solar cells. *Solar Energy Materials and Solar Cells*, **2012**, 107, 230-235	6.4	17
140	Thermal decomposition and spectroscopic investigation of a new aqueous glycolato(-peroxo) Ti(IV) solution□gel precursor. *Thermochimica Acta*, **2011**, 520, 121-133	2.9	17
139	Water based preparation method for □green□solid-state polythiophene solar cells. *Thin Solid Films*, **2008**, 516, 7245-7250	2.2	17
138	The use of TGA-MS, TGA-FTIR, HT-XRD and HT-DRIFT for the preparation and characterization of PbTiO3 and BaTiO3. *Thermochimica Acta*, **2002**, 392-393, 29-35	2.9	17
137	SnO2 thin films from an aqueous citrato peroxo Sn(IV) precursor. *Journal of Sol-Gel Science and Technology*, **2012**, 62, 57-64	2.3	16
136	Layered perovskite-like Pb2Fe2O5 structure as a parent matrix for the nucleation and growth of crystallographic shear planes. *Inorganic Chemistry*, **2011**, 50, 4978-86	5.1	16
135	Synthesis of the high temperature superconductor YBa2Cu3O7□by the hydroxide co-precipitation method. *Physica C: Superconductivity and Its Applications*, **1997**, 278, 55-61	1.3	16
134	Aqueous Chemical Solution Deposition. *Electrochemical and Solid-State Letters*, **2007**, 10, G15		16
133	Ferroelectric SrBi 2 Nb 2 O 9 Thin Films by Aqueous Chemical Solution Deposition. *Integrated Ferroelectrics*, **2002**, 45, 205-213	0.8	16
132	Aqueous citrato-oxovanadate(IV) precursor solutions for VO2: synthesis, spectroscopic investigation and thermal analysis. *Dalton Transactions*, **2014**, 43, 12614-23	4.3	15
131	Properties and thermal stability of solution processed ultrathin, high-k bismuth titanate (Bi2Ti2O7) films. *Materials Research Bulletin*, **2012**, 47, 511-517	5.1	15
130	Influence of synthesis parameters on morphology and phase composition of porous titania layers prepared via water based chemical solution deposition. *Journal of the European Ceramic Society*, **2007**, 27, 4537-4546	6	15
129	Study of different chemical methods to prepare ceramic high-temperature superconductors. *Superconductor Science and Technology*, **1998**, 11, 82-87	3.1	15
128	The pressure sensitivity of wrinkled B-doped nanocrystalline diamond membranes. *Scientific Reports*, **2016**, 6, 35667	4.9	14
127	On the Origin of Diamond Plates Deposited at Low Temperature. *Crystal Growth and Design*, **2017**, 17, 4306-4314	3.5	14
126	Combustion deposition of MoO3 films: from fundamentals to OPV applications. *RSC Advances*, **2015**, 5, 91349-91362	3.7	14
125	Relation between Morphology and Recombination Kinetics in Nanostructured Hybrid Solar Cells. *Journal of Physical Chemistry C*, **2012**, 116, 14237-14242	3.8	14
124	Tuning the dimensions of ZnO nanorod arrays for application in hybrid photovoltaics. *ChemPhysChem*, **2012**, 13, 2777-83	3.2	14

123	Free Volume Expansion of Poly[1-(trimethylsilyl)-1-propyne] Treated in Supercritical Carbon Dioxide As Revealed by Positron Annihilation Lifetime Spectroscopy. *Macromolecules*, **2011**, 44, 2766-2772	5.5	14
122	Comparison of Two Novel Solution-Based Routes for the Synthesis of Equiaxed ZnO Nanoparticles. *Journal of Nanomaterials*, **2011**, 2011, 1-6	3.2	14
121	Aqueous Chemical Solution Deposition of Ferroelectric Ti4+Cosubstituted (Bi,La)4Ti3O12Thin Films. *Chemistry of Materials*, **2007**, 19, 2994-3001	9.6	14
120	Vertically aligned diamond-graphite hybrid nanorod arrays with superior field electron emission properties. *APL Materials*, **2017**, 5, 066102	5.7	13
119	Transparent conducting oxide films of group V doped titania prepared by aqueous chemical solution deposition. *Thin Solid Films*, **2014**, 555, 33-38	2.2	13
118	Crosslinked poly[1-(trimethylsilyl)-1-propyne] membranes: Characterization and pervaporation of aqueous tetrahydrofuran mixtures. *Journal of Membrane Science*, **2012**, 389, 459-469	9.6	13
117	Analytical TEM study of CVD diamond growth on TiO2 sol□gel layers. *Diamond and Related Materials*, **2012**, 23, 93-99	3.5	13
116	Preparation and characterization of coprecipitates and mechanical mixtures of calcium-strontium oxalates using XRD, SEM-EDX and TG. *Thermochimica Acta*, **1998**, 318, 143-153	2.9	13
115	Synthesis of zirconia□lumina and alumina□irconia core□hell particles via a heterocoagulation mechanism. *Journal of the European Ceramic Society*, **2006**, 26, 3133-3138	6	13
114	Phase evolution of sol□gel prepared Pb(Zr0.3Ti0.7)O3 thin films deposited on IrO2/TiO2/SiO2/Si electrodes. *Thin Solid Films*, **2004**, 467, 104-111	2.2	13
113	Growth, structural and plasma illumination properties of nanocrystalline diamond-decorated graphene nanoflakes. *RSC Advances*, **2016**, 6, 63178-63184	3.7	12
112	Solution derived ZnO:Al films with low resistivity. *Thin Solid Films*, **2012**, 524, 81-85	2.2	12
111	Preparation of nanocrystalline titania films with different porosity by water-based chemical solution deposition. *Journal of Sol-Gel Science and Technology*, **2007**, 43, 291-297	2.3	12
110	Preparation of La0.5Sr0.5CoO3 powders and thin film from a new aqueous solution□gel precursor. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2005**, 118, 79-83	3.1	12
109	Probing the flat band potential and effective electronic carrier density in vertically aligned nitrogen doped diamond nanorods via electrochemical method. *Electrochimica Acta*, **2017**, 246, 68-74	6.7	11
108	Amorphous and perovskite Li3xLa(2/3)□TiO3 (thin) films via chemical solution deposition: solid electrolytes for all-solid-state Li-ion batteries. *Journal of Sol-Gel Science and Technology*, **2015**, 73, 536-543	2.3	11
107	Enhanced optoelectronic performances of vertically aligned hexagonal boron nitride nanowalls-nanocrystalline diamond heterostructures. *Scientific Reports*, **2016**, 6, 29444	4.9	11
106	Thermal decomposition synthesis of Al-doped ZnO nanoparticles: an in-depth study. *RSC Advances*, **2013**, 3, 23745	3.7	11

105	Field electron emission enhancement in lithium implanted and annealed nitrogen-incorporated nanocrystalline diamond films. *Applied Physics Letters*, **2017**, 110, 261602	3.4	11
104	Stabilization of ambient sensitive atomic layer deposited lanthanum aluminates by annealing and in situ capping. *Applied Physics Letters*, **2011**, 98, 102904	3.4	11
103	Synthesis of Tetragonal Zirconia Nanoparticles via an Aqueous Solution-Gel Method. *Key Engineering Materials*, **2004**, 264-268, 343-346	0.4	11
102	Ultrasonic Spray Deposition of Metal Oxide Films on High Aspect Ratio Microstructures for Three-Dimensional All-Solid-State Li-ion Batteries. *ACS Energy Letters*, **2016**, 1, 1184-1188	20.1	10
101	Elucidation of the Growth Mechanism of Sputtered 2D Hexagonal Boron Nitride Nanowalls. *Crystal Growth and Design*, **2016**, 16, 3699-3708	3.5	10
100	Morphology of water-based chemical solution deposition (CSD) lead titanate films on different substrates: Towards island formation. *Journal of the European Ceramic Society*, **2009**, 29, 1703-1711	6	10
99	Alternative high-k dielectrics for semiconductor applications. *Journal of Vacuum Science & Technology B*, **2009**, 27, 209		10
98	Enhancement of Tc by substituting strontium for barium in the YBa2Cu4O8 superconductor prepared by a sol□gel method. *Physica C: Superconductivity and Its Applications*, **1998**, 307, 209-220	1.3	10
97	A statistical approach to the identification of determinant factors in the preparation of phase pure (Bi,La)4Ti3O12 from an aqueous citrate gel. *Journal of the European Ceramic Society*, **2004**, 24, 2575-2581	6	10
96	Sol□gel synthesis and properties of YBa2(Cu1□Mx)4Oy (M=Co, Ni) and effects of additional replacement of yttrium by calcium. *Solid State Sciences*, **1999**, 1, 259-268		10
95	Collective photothermal effect of Al2O3-supported spheroidal plasmonic Ru nanoparticle catalysts in the sunlight-powered Sabatier reaction. *ChemCatChem*, **2020**, 12, 5618-5622	5.2	10
94	Understanding the Importance of Cu(I) Intermediates in Self-Reducing Molecular Inks for Flexible Electronics. *Inorganic Chemistry*, **2018**, 57, 15205-15215	5.1	10
93	Enhancement of plasma illumination characteristics of few-layer graphene-diamond nanorods hybrid. *Nanotechnology*, **2017**, 28, 065701	3.4	9
92	Eu3+ - Doped Ln3Al5O12 (Ln = Er, Tm, Yb, Lu) garnets: Synthesis, characterization and investigation of structural and luminescence properties. *Journal of Luminescence*, **2019**, 212, 14-22	3.8	9
91	Eu3+-Doped Y3□SmxAl5O12 garnet: synthesis and structural investigation. *New Journal of Chemistry*, **2018**, 42, 2278-2287	3.6	9
90	CVD diamond growth from nanodiamond seeds buried under a thin chromium layer. *Diamond and Related Materials*, **2016**, 64, 163-168	3.5	9
89	Strontium niobate high-k dielectrics: Film deposition and material properties. *Acta Materialia*, **2010**, 58, 216-225	8.4	9
88	Synthesis and mechanical and tribological characterization of alumina□yttria stabilized zirconia (YSZ) nanocomposites with YSZ synthesized by means of an aqueous solution□gel method or a hydrothermal route. *Ceramics International*, **2008**, 34, 1315-1325	5.1	9

87	Entirely Aqueous SolutionGel Route for the Preparation of (Pb1-xCax)TiO3 Thin Films. *Chemistry of Materials*, **2006**, 18, 6448-6456	9.6	9
86	Effect of crystallization parameters on the properties of Bi3.5La0.5Ti3O12 thin films deposited by aqueous chemical solution deposition. *Thin Solid Films*, **2005**, 492, 105-113	2.2	9
85	Structure Determination and Refinement of Acid Strontium Oxalate from X-Ray and Neutron Powder Diffraction. *Journal of Solid State Chemistry*, **2001**, 157, 283-288	3.3	9
84	Nanodiamond seeding on plasma-treated tantalum thin films and the role of surface contamination. *Applied Surface Science*, **2021**, 538, 148016	6.7	9
83	BiFeO3 thin films via aqueous solution deposition: a study of phase formation and stabilization. *Journal of Materials Science*, **2015**, 50, 4463-4476	4.3	8
82	Crystallization of alkaline earth zirconates and niobates from compositionally flexible aqueous solution-gel syntheses. *Materials Research Bulletin*, **2009**, 44, 734-740	5.1	8
81	Crystallization resistance of barium titanate zirconate ultrathin films from aqueous CSD: a study of cause and effect. *Journal of Materials Chemistry*, **2009**, 19, 1115		8
80	Tanalith E 3494 impregnated wood: Characterisation and thermal behaviour. *Journal of Analytical and Applied Pyrolysis*, **2007**, 78, 133-139	6	8
79	Aqueous CSD of Ferroelectric Bi3.5La0.5Ti3O12 (BLT) Thin Films. *Integrated Ferroelectrics*, **2004**, 62, 205-209	2.9	8
78	Effect of pyrolysis temperature on the properties of Bi3.5La0.5Ti3O12 thin films deposited by aqueous chemical solution deposition. *Materials Chemistry and Physics*, **2005**, 92, 431-437	4.4	8
77	Ultrasonically spray coated silver layers from designed precursor inks for flexible electronics. *Nanotechnology*, **2017**, 28, 215202	3.4	7
76	Combustion synthesis as a low temperature route to Li4Ti5O12 based powders for lithium ion battery anodes. *RSC Advances*, **2017**, 7, 18745-18754	3.7	7
75	Nanostructure stabilization by low-temperature dopant pinning in multiferroic BiFeO3-based thin films produced by aqueous chemical solution deposition. *Journal of Materials Chemistry C*, **2020**, 8, 4234-4245	7.1	7
74	Annealing of sulfide stabilized colloidal semiconductor nanocrystals. *Journal of Materials Chemistry C*, **2014**, 2, 178-183	7.1	7
73	Improved nanodiamond seeding on chromium by surface plasma pretreatment. *Chemical Physics Letters*, **2015**, 640, 50-54	2.5	7
72	Thermal treatment of a modified alkoxide gel precursor for the preparation of the YBa2Cu4O8 superconductor. *Journal of Theoretical Biology*, **1997**, 48, 989-996	2.3	7
71	Structure Determination by EXAFS of NbPeroxoCitrato Complexes in Aqueous SolutionGel Systems. *Physica Scripta*, **2005**, 415	2.6	7
70	Constructive versus Destructive Heterogeneity in Porous Electrodes of Lithium-Ion Batteries. *ACS Applied Energy Materials*, **2020**, 3, 11820-11829	6.1	7

69	From liquid to thin film: colloidal suspensions for tungsten oxide as an electrode material for Li-ion batteries. *RSC Advances*, **2016**, 6, 51747-51756	3.7	6
68	Screen-printing of flexible semi-transparent electrodes and devices based on silver nanowire networks. *Nanotechnology*, **2018**, 29, 425201	3.4	6
67	Microstructural Effect on the Enhancement of Field Electron Emission Properties of Nanocrystalline Diamond Films by Li-Ion Implantation and Annealing Processes. *ACS Omega*, **2018**, 3, 9956-9965	3.9	6
66	Properties of Ultrathin High Permittivity (Nb[sub 1−]Ta[sub x])[sub 2]O[sub 5] Films Prepared by Aqueous Chemical Solution Deposition. *Journal of the Electrochemical Society*, **2010**, 157, G13	3.9	6
65	Effect of La3+ content on the properties of ferroelectric Bi4− La x Ti3O12 (BLT) thin films prepared by aqueous chemical solution deposition. *Journal of Sol-Gel Science and Technology*, **2007**, 42, 239-245	2.3	6
64	Influence of Heat Treatment on Sr0.9Bi2.2Ta2O9 Thin Films Prepared by Aqueous CSD. *Integrated Ferroelectrics*, **2004**, 62, 177-182	0.8	6
63	Reduced Na2+xTi4O9/C Composite: A Durable Anode for Sodium-Ion Batteries. *Chemistry of Materials*, **2018**, 30, 8521-8527	9.6	6
62	Direct nucleation of hexagonal boron nitride on diamond: Crystalline properties of hBN nanowalls. *Acta Materialia*, **2017**, 127, 17-24	8.4	5
61	Chemical composition of an aqueous oxalato-/citrato-VO(2+) solution as determinant for vanadium oxide phase formation. *Inorganic Chemistry*, **2015**, 54, 69-78	5.1	5
60	Thin film composites in the BiFeO3Bi4Ti3O12 system obtained by an aqueous solution-gel deposition methodology. *Boletin De La Sociedad Espanola De Ceramica Y Vidrio*, **2018**, 57, 19-28	1.9	5
59	Effectiveness of Ligand Denticity-Dependent Oxidation Protection in Copper MOD Inks. *Langmuir*, **2019**, 35, 16101-16110	4	5
58	Influence of hydrogen and hydrogen/methane plasmas on AlN thin films. *Applied Physics Letters*, **2014**, 104, 081917	3.4	5
57	Homopolymers as nanocarriers for the loading of block copolymer micelles with metal salts: a facile way to large-scale ordered arrays of transition-metal nanoparticles. *Journal of Materials Chemistry C* , **2014**, 2, 701-707	7.1	5
56	Gadolinium -niobates and -tantalates: Amorphous High-k Materials by Aqueous CSD. *Journal of the Electrochemical Society*, **2012**, 159, G75-G79	3.9	5
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