

# Marlies Van Bael

## List of Publications by Year in descending order

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220  
papers

4,448  
citations

109264

35  
h-index

189801

50  
g-index

225  
all docs

225  
docs citations

225  
times ranked

5528  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis of ZnO nanopowder via an aqueous acetate-citrate gelation method. <i>Materials Research Bulletin</i> , 2002, 37, 901-914.	2.7	111
2	Preparation and benchmarking of thin film supported PTMSP-silica pervaporation membranes. <i>Journal of Membrane Science</i> , 2012, 389, 265-271.	4.1	106
3	Synthesis of ZnO nanorods from aqueous solution. <i>Materials Letters</i> , 2007, 61, 2624-2627.	1.3	102
4	Towards Efficient Hybrid Solar Cells Based on Fully Polymer Infiltrated ZnO Nanorod Arrays. <i>Advanced Materials</i> , 2011, 23, 2802-2805.	11.1	100
5	Eutectogels: A New Class of Solid Composite Electrolytes for Li/Li-Ion Batteries. <i>Chemistry of Materials</i> , 2018, 30, 655-662.	3.2	91
6	Matrix-Isolation FTIR Studies and Theoretical Calculations of Hydrogen-Bonded Complexes of Imidazole. A Comparison between Experimental Results and Different Calculation Methods. <i>Journal of Physical Chemistry A</i> , 1997, 101, 2397-2413.	1.1	90
7	Self-Assembled Multilayers of Vertically Aligned Semiconductor Nanorods on Device-Scale Areas. <i>Advanced Materials</i> , 2011, 23, 2205-2209.	11.1	83
8	Title is missing!. <i>Journal of Materials Science</i> , 2002, 37, 81-88.	1.7	78
9	High flux composite PTMSP-silica nanohybrid membranes for the pervaporation of ethanol/water mixtures. <i>Journal of Membrane Science</i> , 2010, 351, 160-167.	4.1	76
10	Evolution of Metal-Trifluoroacetate Precursors in the Thermal Decomposition toward High-Performance $\text{YBa}_2\text{Cu}_3\text{O}_7$ Superconducting Films. <i>Chemistry of Materials</i> , 2010, 22, 1686-1694.	3.2	74
11	Influence of fullerene photodimerization on the PCBM crystallization in polymer: Fullerene bulk heterojunctions under thermal stress. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 1209-1214.	2.4	72
12	Influence of incorporation of ZnO nanoparticles and biaxial orientation on mechanical and oxygen barrier properties of polypropylene films for food packaging applications. <i>Journal of Applied Polymer Science</i> , 2011, 120, 1616-1623.	1.3	67
13	Study of the decomposition of an aqueous metal-chelate gel precursor for $(\text{Bi},\text{La})_4\text{Ti}_3\text{O}_{12}$ by means of TGA-FTIR, TGA-MS and HT-DRIFT. <i>Thermochimica Acta</i> , 2003, 397, 143-153.	1.2	65
14	Effects of precursor chemistry and thermal treatment conditions on obtaining phase pure bismuth ferrite from aqueous gel precursors. <i>Journal of the European Ceramic Society</i> , 2009, 29, 3007-3013.	2.8	62
15	Aqueous Chemical Solution Deposition of Ferroelectric Thin Films. <i>Integrated Ferroelectrics</i> , 2002, 45, 113-122.	0.3	60
16	Polymeric Backbone Eutectogels as a New Generation of Hybrid Solid-State Electrolytes. <i>Chemistry of Materials</i> , 2020, 32, 3783-3793.	3.2	52
17	An aqueous solution-gel citratoperoxo-Ti(IV) precursor: synthesis, gelation, thermo-oxidative decomposition and oxide crystallization. <i>Journal of Sol-Gel Science and Technology</i> , 2007, 44, 65-74.	1.1	50
18	Phase formation of ferroelectric perovskite $0.75 \text{Pb}(\text{Zn}_{1/3}, \text{Nb}_{2/3})\text{O}_3 \cdot 0.25 \text{BaTiO}_3$ prepared by aqueous solution-gel chemistry. <i>Journal of Materials Chemistry</i> , 2001, 11, 1192-1197.	6.7	49

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19	Sol-gel (combustion) synthesis and characterization of different alkaline earth metal (Ca, Sr, Ba) stannates. <i>Journal of Sol-Gel Science and Technology</i> , 2012, 64, 643-652.	1.1	47
20	Atomic Layer Deposition of Gd-Doped HfO <sub>2</sub> Thin Films. <i>Journal of the Electrochemical Society</i> , 2010, 157, G105.	1.3	45
21	Influence of Interface Morphology onto the Photovoltaic Properties of Nanopatterned ZnO/Poly(3-hexylthiophene) Hybrid Solar Cells. An Impedance Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16695-16700.	1.5	45
22	Thermal behaviour of arsenic oxides (As <sub>2</sub> O <sub>5</sub> and As <sub>2</sub> O <sub>3</sub> ) and the influence of reducing agents (glucose) Tj ETQq0 0,0 rgBT /Overlock 10	1.2	42
23	Synthesis of thin dense titania films via an aqueous solution-gel method. <i>Journal of Sol-Gel Science and Technology</i> , 2007, 41, 43-48.	1.1	40
24	Arsenic release during pyrolysis of CCA treated wood waste: current state of knowledge. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003, 68-69, 613-633.	2.6	38
25	Structural and Optical Properties of DNA Layers Covalently Attached to Diamond Surfaces. <i>Langmuir</i> , 2008, 24, 7269-7277.	1.6	38
26	Synthesis of (Bi,Lu)Ti <sub>3</sub> O <sub>12</sub> by a new aqueous solution-gel route. <i>Journal of the European Ceramic Society</i> , 2004, 24, 905-909.	2.8	37
27	Hydrothermal synthesis of ZnO nanorods: a statistical determination of the significant parameters in view of reducing the diameter. <i>Nanotechnology</i> , 2009, 20, 055608.	1.3	37
28	Investigation of the ferroelectric-relaxor crossover in Ce-doped BaTiO <sub>3</sub> ceramics by impedance spectroscopy and Raman study. <i>Phase Transitions</i> , 2013, 86, 703-714.	0.6	37
29	A novel explanation for the increased conductivity in annealed Al-doped ZnO: an insight into migration of aluminum and displacement of zinc. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27866-27877.	1.3	37
30	Matrix-Isolation FT-IR Studies and Theoretical Calculations of Hydrogen-Bonded Complexes of Molecules Modeling Adenine Tautomers. 1. H-Bonding of Benzimidazoles with H <sub>2</sub> O in Ar Matrices. <i>Journal of Physical Chemistry A</i> , 1998, 102, 4863-4877.	1.1	36
31	Synthesis of strontium bismuth niobate (SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> ) using an aqueous acetate-citrate precursor gel: thermal decomposition and phase formation. <i>Thermochimica Acta</i> , 2005, 426, 39-48.	1.2	36
32	Water-based wet chemical synthesis of (doped) ZnO nanostructures. <i>Journal of Sol-Gel Science and Technology</i> , 2006, 39, 41-47.	1.1	36
33	Ti surface doping of LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> positive electrodes for lithium ion batteries. <i>RSC Advances</i> , 2018, 8, 7287-7300.	1.7	36
34	Ground-state charge-transfer complex formation in hybrid poly(3-hexyl thiophene):titanium dioxide solar cells. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	35
35	Study of interfacial reactions and phase stabilization of mixed Sc, Dy, Hf high-k oxides by attenuated total reflectance infrared spectroscopy. <i>Applied Surface Science</i> , 2009, 255, 7812-7817.	3.1	35
36	Dielectric Response of Ta <sub>2</sub> O <sub>5</sub> , Nb <sub>2</sub> O <sub>5</sub> , and NbTaO <sub>5</sub> from First-Principles Investigations. <i>Journal of the Electrochemical Society</i> , 2010, 157, G20.	1.3	35

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37	Photoluminescence of Pr <sup>3+</sup> -doped calcium and strontium stannates. <i>Journal of Luminescence</i> , 2016, 172, 323-330.	1.5	35
38	Aqueous Solutions for Low-Temperature Photoannealing of Functional Oxide Films: Reaching the 400 Å°C Si-Technology Integration Barrier. <i>Journal of the American Chemical Society</i> , 2011, 133, 12922-12925.	6.6	34
39	Aqueous Solution-Gel Synthesis of Strontium Bismuth Niobate (SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> ). <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 1125-1129.	1.1	33
40	Relation between synthesis conditions, dopant position and charge carriers in aluminium-doped ZnO nanoparticles. <i>RSC Advances</i> , 2013, 3, 15254.	1.7	33
41	H <sub>2</sub> S exposure of a (100)Ge surface: Evidences for a (2Å–1) electrically passivated surface. <i>Applied Physics Letters</i> , 2007, 90, 222105.	1.5	32
42	Synthesis of platelet-shaped boehmite and Î <sup>3</sup> -alumina nanoparticles via an aqueous route. <i>Ceramics International</i> , 2008, 34, 1971-1974.	2.3	32
43	Diamond Nucleation by Carbon Transport from Buried Nanodiamond TiO <sub>2</sub> Sol-Gel Composites. <i>Advanced Materials</i> , 2009, 21, 670-673.	11.1	32
44	A UV-absorber bismuth(III)-N-methyldiethanolamine complex as a low-temperature precursor for bismuth-based oxide thin films. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8750-8760.	2.7	32
45	Hydrothermal synthesis of a concentrated and stable dispersion of TiO <sub>2</sub> nanoparticles. <i>Chemical Engineering Journal</i> , 2013, 223, 135-144.	6.6	31
46	Thermal behaviour of arsenic trioxide adsorbed on activated carbon. <i>Journal of Hazardous Materials</i> , 2009, 166, 1238-1243.	6.5	30
47	Luminescence properties of Sm <sup>3+</sup> -doped alkaline earth ortho-stannates. <i>Optical Materials</i> , 2014, 36, 1146-1152.	1.7	30
48	Chemical Solution Deposition of ZnO Thin Films by an Aqueous Solution Gel Precursor Route. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 523-526.	1.1	29
49	Surface plasma pretreatment for enhanced diamond nucleation on AlN. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	29
50	Factors Influencing the Conductivity of Aqueous Solution-Gel-Processed Al-Doped ZnO Films. <i>Chemistry of Materials</i> , 2014, 26, 5839-5851.	3.2	29
51	Synthesis of SrBi <sub>2</sub> Ta <sub>2</sub> O <sub>9</sub> (SBT) by means of a soluble Ta(V) precursor. <i>Journal of the European Ceramic Society</i> , 2001, 21, 2047-2049.	2.8	28
52	Study of the decomposition of aqueous citratoperoxo-Ti(IV)-gel precursors for titania by means of TGA-MS and FTIR. <i>Thermochimica Acta</i> , 2007, 456, 38-47.	1.2	28
53	A study on the thermal sintering process of silver nanoparticle inkjet inks to achieve smooth and highly conducting silver layers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2016, 213, 1403-1409.	0.8	28
54	Sunlight-Fueled, Low-Temperature Ru-Catalyzed Conversion of CO <sub>2</sub> and H <sub>2</sub> to CH <sub>4</sub> with a High Photon-to-Methane Efficiency. <i>ACS Omega</i> , 2019, 4, 7369-7377.	1.6	28

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55	The Formation of Ferroelectric Bismuth Titanate (Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> ) from an Aqueous Metal-Chelate Gel. <i>Journal of Sol-Gel Science and Technology</i> , 2003, 26, 1103-1107.	1.1	27
56	The use of Hi-Res TGA, TG-FTIR, HT-DRIFT and HT-XRD in the study of the decomposition of La <sub>2</sub> (C <sub>2</sub> O <sub>4</sub> ) <sub>3</sub> ·10H <sub>2</sub> O. <i>Thermochimica Acta</i> , 2000, 354, 145-151.	1.2	26
57	In Situ Mechanical Analysis of the Nanoscopic Solid Electrolyte Interphase on Anodes of Li-Ion Batteries. <i>Advanced Science</i> , 2019, 6, 1900190.	5.6	26
58	Towards high-performance biopackaging: barrier and mechanical properties of dual-action polycaprolactone/zinc oxide nanocomposites. <i>Polymers for Advanced Technologies</i> , 2012, 23, 1422-1428.	1.6	25
59	V <sub>2</sub> O <sub>5</sub> films by control of the oxidation state from aqueous precursor to crystalline phase. <i>Dalton Transactions</i> , 2013, 42, 959-968.	1.6	25
60	ZnO-Based Sunscreen: The Perfect Example To Introduce Nanoparticles in an Undergraduate or High School Chemistry Lab. <i>Journal of Chemical Education</i> , 2014, 91, 259-263.	1.1	25
61	Impact of Process Optimizations on the Electrical Performance of High-k Layers Deposited by Aqueous Chemical Solution Deposition. <i>Journal of the Electrochemical Society</i> , 2008, 155, G91.	1.3	24
62	On the Origin of Diamond Plates Deposited at Low Temperature. <i>Crystal Growth and Design</i> , 2017, 17, 4306-4314.	1.4	24
63	Collective photothermal effect of Al <sub>2</sub> O <sub>3</sub> -supported spheroidal plasmonic Ru nanoparticle catalysts in the sunlight-powered Sabatier reaction. <i>ChemCatChem</i> , 2020, 12, 5618-5622.	1.8	24
64	Gel Structure, Gel Decomposition and Phase Formation Mechanisms in the Aqueous Solution "Gel Route to Lanthanum Substituted Bismuth Titanate. <i>Journal of Sol-Gel Science and Technology</i> , 2005, 33, 283-298.	1.1	23
65	The aqueous solution-gel synthesis of perovskite Pb(Zr <sub>1-x</sub> Ti <sub>x</sub> )O <sub>3</sub> (PZT). <i>Journal of Materials Science</i> , 2007, 42, 624-632.	1.7	23
66	Aqueous solution "gel preparation of ultrathin ZrO <sub>2</sub> films for gate dielectric application. <i>Thin Solid Films</i> , 2008, 516, 8343-8351.	0.8	23
67	Substitutional phosphorus incorporation in nanocrystalline CVD diamond thin films. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014, 8, 705-709.	1.2	22
68	Thermal decomposition and spectroscopic investigation of a new aqueous glycolato(-peroxo) Ti(IV) solution "gel precursor. <i>Thermochimica Acta</i> , 2011, 520, 121-133.	1.2	21
69	Constructive versus Destructive Heterogeneity in Porous Electrodes of Lithium-Ion Batteries. <i>ACS Applied Energy Materials</i> , 2020, 3, 11820-11829.	2.5	21
70	Nanodiamond seeding on plasma-treated tantalum thin films and the role of surface contamination. <i>Applied Surface Science</i> , 2021, 538, 148016.	3.1	21
71	Formation and micro-Raman spectroscopic study of Aurivilius and fluorite-type SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> nanocrystallites obtained using an "amorphous citrate" route. <i>Journal of the European Ceramic Society</i> , 2006, 26, 409-415.	2.8	20
72	Aqueous chemical solution deposition of ultrathin lanthanide oxide dielectric films. <i>Journal of Materials Research</i> , 2007, 22, 3484-3493.	1.2	20

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73	Atomic Layer Deposition of Gadolinium Aluminate using $Gd(iPrCp)_3$ , TMA, and $O_3$ or $H_2O$ . Chemical Vapor Deposition, 2010, 16, 170-178.	1.4	20
74	Effect of annealing atmosphere on $LiMn_2O_4$ for thin film Li-ion batteries from aqueous chemical solution deposition. Journal of Materials Chemistry A, 2016, 4, 18457-18469.	5.2	20
75	The use of TGA-MS, TGA-FTIR, HT-XRD and HT-DRIFT for the preparation and characterization of $PbTiO_3$ and $BaTiO_3$ . Thermochimica Acta, 2002, 392-393, 29-35.	1.2	19
76	Preparation of a porous nanocrystalline $TiO_2$ layer by deposition of hydrothermally synthesized nanoparticles. Journal of the European Ceramic Society, 2007, 27, 4529-4535.	2.8	19
77	Fully water-processable metal oxide nanorods/polymer hybrid solar cells. Solar Energy Materials and Solar Cells, 2012, 107, 230-235.	3.0	19
78	Properties and thermal stability of solution processed ultrathin, high-k bismuth titanate ( $Bi_2Ti_2O_7$ ) films. Materials Research Bulletin, 2012, 47, 511-517.	2.7	19
79	Growth, structural and plasma illumination properties of nanocrystalline diamond-decorated graphene nanoflakes. RSC Advances, 2016, 6, 63178-63184.	1.7	19
80	Study of different chemical methods to prepare ceramic high-temperature superconductors. Superconductor Science and Technology, 1998, 11, 82-87.	1.8	18
81	Synthesis of $RuO_2$ and $SrRuO_3$ powders by means of aqueous solution gel chemistry. Journal of the European Ceramic Society, 2004, 24, 919-923.	2.8	18
82	Water based preparation method for "green" solid-state polythiophene solar cells. Thin Solid Films, 2008, 516, 7245-7250.	0.8	18
83	The pressure sensitivity of wrinkled B-doped nanocrystalline diamond membranes. Scientific Reports, 2016, 6, 35667.	1.6	18
84	Vertically aligned diamond-graphite hybrid nanorod arrays with superior field electron emission properties. APL Materials, 2017, 5, .	2.2	18
85	Layered Perovskite-Like $Pb_2Fe_2O_5$ Structure as a Parent Matrix for the Nucleation and Growth of Crystallographic Shear Planes. Inorganic Chemistry, 2011, 50, 4978-4986.	1.9	17
86	$SnO_2$ thin films from an aqueous citrato peroxo Sn(IV) precursor. Journal of Sol-Gel Science and Technology, 2012, 62, 57-64.	1.1	17
87	Aqueous citrato-oxovanadate( <i>iv</i> ) precursor solutions for $VO_2$ : synthesis, spectroscopic investigation and thermal analysis. Dalton Transactions, 2014, 43, 12614-12623.	1.6	17
88	Combustion deposition of $MoO_3$ films: from fundamentals to OPV applications. RSC Advances, 2015, 5, 91349-91362.	1.7	17
89	Enhancement of plasma illumination characteristics of few-layer graphene-diamond nanorods hybrid. Nanotechnology, 2017, 28, 065701.	1.3	17
90	Synthesis of the high temperature superconductor $YBa_2Cu_3O_7$ by the hydroxide co-precipitation method. Physica C: Superconductivity and Its Applications, 1997, 278, 55-61.	0.6	16

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91	Preparation and characterization of coprecipitates and mechanical mixtures of calcium-strontium oxalates using XRD, SEM-EDX and TG. <i>Thermochimica Acta</i> , 1998, 318, 143-153.	1.2	16
92	Ferroelectric SrBi <sub>2</sub> Nb <sub>2</sub> O <sub>9</sub> Thin Films by Aqueous Chemical Solution Deposition. <i>Integrated Ferroelectrics</i> , 2002, 45, 205-213.	0.3	16
93	Aqueous Chemical Solution Deposition. <i>Electrochemical and Solid-State Letters</i> , 2007, 10, G15.	2.2	16
94	Aqueous Chemical Solution Deposition of Ferroelectric Ti <sub>4</sub> +Co-substituted (Bi,Lu) <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> Thin Films. <i>Chemistry of Materials</i> , 2007, 19, 2994-3001.	3.2	16
95	Comparison of Two Novel Solution-Based Routes for the Synthesis of Equiaxed ZnO Nanoparticles. <i>Journal of Nanomaterials</i> , 2011, 2011, 1-6.	1.5	16
96	Understanding the Importance of Cu(I) Intermediates in Self-Reducing Molecular Inks for Flexible Electronics. <i>Inorganic Chemistry</i> , 2018, 57, 15205-15215.	1.9	16
97	Screen-printing of flexible semi-transparent electrodes and devices based on silver nanowire networks. <i>Nanotechnology</i> , 2018, 29, 425201.	1.3	16
98	Eu <sup>3+</sup> -Doped Ln <sub>3</sub> Al <sub>5</sub> O <sub>12</sub> (Ln = Er, Tm, Yb, Lu) garnets: Synthesis, characterization and investigation of structural and luminescence properties. <i>Journal of Luminescence</i> , 2019, 212, 14-22.	1.5	16
99	Influence of synthesis parameters on morphology and phase composition of porous titania layers prepared via water based chemical solution deposition. <i>Journal of the European Ceramic Society</i> , 2007, 27, 4537-4546.	2.8	15
100	Free Volume Expansion of Poly[1-(trimethylsilyl)-1-propyne] Treated in Supercritical Carbon Dioxide As Revealed by Positron Annihilation Lifetime Spectroscopy. <i>Macromolecules</i> , 2011, 44, 2766-2772.	2.2	15
101	Analytical TEM study of CVD diamond growth on TiO <sub>2</sub> sol-gel layers. <i>Diamond and Related Materials</i> , 2012, 23, 93-99.	1.8	15
102	Probing the flat band potential and effective electronic carrier density in vertically aligned nitrogen doped diamond nanorods via electrochemical method. <i>Electrochimica Acta</i> , 2017, 246, 68-74.	2.6	15
103	Synthesis of zirconia-alumina and alumina-zirconia core-shell particles via a heterocoagulation mechanism. <i>Journal of the European Ceramic Society</i> , 2006, 26, 3133-3138.	2.8	14
104	Solution derived ZnO:Al films with low resistivity. <i>Thin Solid Films</i> , 2012, 524, 81-85.	0.8	14
105	Relation between Morphology and Recombination Kinetics in Nanostructured Hybrid Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012, 116, 14237-14242.	1.5	14
106	Tuning the Dimensions of ZnO Nanorod Arrays for Application in Hybrid Photovoltaics. <i>ChemPhysChem</i> , 2012, 13, 2777-2783.	1.0	14
107	Transparent conducting oxide films of group V doped titania prepared by aqueous chemical solution deposition. <i>Thin Solid Films</i> , 2014, 555, 33-38.	0.8	14
108	Amorphous and perovskite Li <sub>3</sub> xLa <sub>(2/3)~x</sub> TiO <sub>3</sub> (thin) films via chemical solution deposition: solid electrolytes for all-solid-state Li-ion batteries. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 73, 536-543.	1.1	14

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109	Field electron emission enhancement in lithium implanted and annealed nitrogen-incorporated nanocrystalline diamond films. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	14
110	Eu <sup>3+</sup> -Doped Y <sub>3-x</sub> Sm <sub>x</sub> Al <sub>5</sub> O <sub>12</sub> garnet: synthesis and structural investigation. <i>New Journal of Chemistry</i> , 2018, 42, 2278-2287.	1.4	14
111	The impact of polymeric binder on the morphology and performances of sulfur electrodes in lithium-sulfur batteries. <i>Electrochimica Acta</i> , 2020, 360, 136993.	2.6	14
112	Probing the impact of material properties of core-shell SiO <sub>2</sub> @TiO <sub>2</sub> spheres on the plasma-catalytic CO <sub>2</sub> dissociation using a packed bed DBD plasma reactor. <i>Journal of CO<sub>2</sub> Utilization</i> , 2021, 46, 101468.	3.3	14
113	Dielectric Barrier Discharge (DBD) Plasma Coating of Sulfur for Mitigation of Capacity Fade in Lithium-Sulfur Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 28072-28089.	4.0	14
114	Synthesis of Tetragonal Zirconia Nanoparticles via an Aqueous Solution-Gel Method. <i>Key Engineering Materials</i> , 2004, 264-268, 343-346.	0.4	13
115	Phase evolution of sol-gel prepared Pb(Zr <sub>0.3</sub> Ti <sub>0.7</sub> )O <sub>3</sub> thin films deposited on IrO <sub>2</sub> /TiO <sub>2</sub> /SiO <sub>2</sub> /Si electrodes. <i>Thin Solid Films</i> , 2004, 467, 104-111.	0.8	13
116	Preparation of La <sub>0.5</sub> Sr <sub>0.5</sub> CoO <sub>3</sub> powders and thin film from a new aqueous solution-gel precursor. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2005, 118, 79-83.	1.7	13
117	Preparation of nanocrystalline titania films with different porosity by water-based chemical solution deposition. <i>Journal of Sol-Gel Science and Technology</i> , 2007, 43, 291-297.	1.1	13
118	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. <i>Ceramics International</i> , 2008, 34, 1315-1325.	2.3	13
119	Crosslinked poly[1-(trimethylsilyl)-1-propyne] membranes: Characterization and pervaporation of aqueous tetrahydrofuran mixtures. <i>Journal of Membrane Science</i> , 2012, 389, 459-469.	4.1	13
120	BiFeO <sub>3</sub> thin films via aqueous solution deposition: a study of phase formation and stabilization. <i>Journal of Materials Science</i> , 2015, 50, 4463-4476.	1.7	13
121	Enhanced optoelectronic performances of vertically aligned hexagonal boron nitride nanowalls-nanocrystalline diamond heterostructures. <i>Scientific Reports</i> , 2016, 6, 29444.	1.6	13
122	Combustion synthesis as a low temperature route to Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> based powders for lithium ion battery anodes. <i>RSC Advances</i> , 2017, 7, 18745-18754.	1.7	13
123	Enhancement of T <sub>c</sub> by substituting strontium for barium in the YBa <sub>2</sub> Cu <sub>4</sub> O <sub>8</sub> superconductor prepared by a sol-gel method. <i>Physica C: Superconductivity and Its Applications</i> , 1998, 307, 209-220.	0.6	12
124	Structure Determination and Refinement of Acid Strontium Oxalate from X-Ray and Neutron Powder Diffraction. <i>Journal of Solid State Chemistry</i> , 2001, 157, 283-288.	1.4	12
125	Thermal decomposition synthesis of Al-doped ZnO nanoparticles: an in-depth study. <i>RSC Advances</i> , 2013, 3, 23745.	1.7	12
126	Ultrasonic Spray Deposition of Metal Oxide Films on High Aspect Ratio Microstructures for Three-Dimensional All-Solid-State Li-ion Batteries. <i>ACS Energy Letters</i> , 2016, 1, 1184-1188.	8.8	12



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127	CVD diamond growth from nanodiamond seeds buried under a thin chromium layer. <i>Diamond and Related Materials</i> , 2016, 64, 163-168.	1.8	12
128	Ultrasonically spray coated silver layers from designed precursor inks for flexible electronics. <i>Nanotechnology</i> , 2017, 28, 215202.	1.3	12
129	Nanostructure stabilization by low-temperature dopant pinning in multiferroic BiFeO <sub>3</sub> -based thin films produced by aqueous chemical solution deposition. <i>Journal of Materials Chemistry C</i> , 2020, 8, 4234-4245.	2.7	12
130	A comparative study on the switching kinetics of W/VO <sub>2</sub> powders and VO <sub>2</sub> coatings and their implications for thermochromic glazing. <i>Solar Energy Materials and Solar Cells</i> , 2021, 224, 110977.	3.0	12
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