

Caue Ribeiro

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219
papers

6,221
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67
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241
ext. papers

7,145
ext. citations

4.8
avg, IF

6.31
L-index

#	Paper	IF	Citations
219	Cellulose nanofibers from white and naturally colored cotton fibers. <i>Cellulose</i> , 2010 , 17, 595-606	5.5	272
218	Photoluminescence in quantum-confined SnO ₂ nanocrystals: Evidence of free exciton decay. <i>Applied Physics Letters</i> , 2004 , 84, 1745-1747	3.4	222
217	Oriented attachment: an effective mechanism in the formation of anisotropic nanocrystals. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 20842-6	3.4	188
216	Synthesis of Nb ₂ O ₅ nanoparticles through the oxidant peroxide method applied to organic pollutant photodegradation: A mechanistic study. <i>Applied Catalysis B: Environmental</i> , 2014 , 144, 800-808	21.8	157
215	A kinetic model to describe nanocrystal growth by the oriented attachment mechanism. <i>ChemPhysChem</i> , 2005 , 6, 690-6	3.2	138
214	Nanocomposite PAAm/methyl cellulose/montmorillonite hydrogel: evidence of synergistic effects for the slow release of fertilizers. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 7431-9	5.7	137
213	Controlled synthesis of BiVO ₄ photocatalysts: Evidence of the role of heterojunctions in their catalytic performance driven by visible-light. <i>Applied Catalysis B: Environmental</i> , 2016 , 188, 87-97	21.8	111
212	Urea-montmorillonite-extruded nanocomposites: a novel slow-release material. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 5267-72	5.7	107
211	Impact of the colloidal state on the oriented attachment growth mechanism. <i>Nanoscale</i> , 2010 , 2, 2336-45	7.7	106
210	Vanadium Pentoxide Nanostructures: An Effective Control of Morphology and Crystal Structure in Hydrothermal Conditions. <i>Crystal Growth and Design</i> , 2009 , 9, 3626-3631	3.5	97
209	CeO ₂ nanoparticles synthesized by a microwave-assisted hydrothermal method: evolution from nanospheres to nanorods. <i>CrystEngComm</i> , 2012 , 14, 1150-1154	3.3	96
208	Role of Slow-Release Nanocomposite Fertilizers on Nitrogen and Phosphate Availability in Soil. <i>Scientific Reports</i> , 2017 , 7, 46032	4.9	95
207	Deposition of TiO ₂ and Ag:TiO ₂ thin films by the polymeric precursor method and their application in the photodegradation of textile dyes. <i>Applied Catalysis B: Environmental</i> , 2009 , 90, 205-212	21.8	94
206	Influence of Microwave Heating on the Growth of Gadolinium-Doped Cerium Oxide Nanorods. <i>Crystal Growth and Design</i> , 2008 , 8, 384-386	3.5	93
205	Slow release fertilizers based on urea/ureaformaldehyde polymer nanocomposites. <i>Chemical Engineering Journal</i> , 2016 , 287, 390-397	14.7	88
204	g-C ₃ N ₄ /Nb ₂ O ₅ heterostructures tailored by sonochemical synthesis: Enhanced photocatalytic performance in oxidation of emerging pollutants driven by visible radiation. <i>Applied Catalysis B: Environmental</i> , 2017 , 216, 70-79	21.8	83
203	Oriented attachment mechanism in anisotropic nanocrystals: a "polymerization" approach. <i>ChemPhysChem</i> , 2006 , 7, 664-70	3.2	81

202	UV-enhanced ozone gas sensing response of ZnO-SnO ₂ heterojunctions at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2017 , 240, 573-579	8.5	80
201	Study of Synthesis Variables in the Nanocrystal Growth Behavior of Tin Oxide Processed by Controlled Hydrolysis. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15612-15617	3.4	80
200	Synthesis of TiO ₂ -coated CoFe ₂ O ₄ photocatalysts applied to the photodegradation of atrazine and rhodamine B in water. <i>Applied Catalysis A: General</i> , 2010 , 382, 284-292	5.1	76
199	Long-range and short-range structures of cube-like shape SrTiO ₃ powders: microwave-assisted hydrothermal synthesis and photocatalytic activity. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12386-12393	3.6	74
198	Growth of Highly c-Axis-Oriented ZnO Nanorods on ZnO/Glass Substrate: Growth Mechanism, Structural, and Optical Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 14715-14720	3.8	70
197	Nitrogen-doped titanium dioxide: An overview of material design and dimensionality effect over modern applications. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2016 , 27, 1-29	16.4	69
196	Anisotropic Growth of Oxide Nanocrystals: Insights into the Rutile TiO ₂ Phase. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 5871-5875	3.8	68
195	Novel Slow-Release Nanocomposite Nitrogen Fertilizers: The Impact of Polymers on Nanocomposite Properties and Function. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 3717-3725	3.9	64
194	Controlled Release of Phosphate from Layered Double Hydroxide Structures: Dynamics in Soil and Application as Smart Fertilizer. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5152-5161	8.3	61
193	Obtaining nanocomposites of polyamide 6 and cellulose whiskers via extrusion and injection molding. <i>Cellulose</i> , 2014 , 21, 311-322	5.5	59
192	Synergistic effect on the photocatalytic activity of N-doped TiO ₂ nanorods synthesised by novel route with exposed (110) facet. <i>Journal of Alloys and Compounds</i> , 2016 , 666, 38-49	5.7	58
191	An easy method of preparing ozone gas sensors based on ZnO nanorods. <i>RSC Advances</i> , 2015 , 5, 19528-19533	3.7	58
190	Effect of TiO ₂ surface modification in Rhodamine B photodegradation. <i>Journal of Sol-Gel Science and Technology</i> , 2009 , 49, 95-100	2.3	57
189	Self-Assembly of Metal and Metal Oxide Nanoparticles and Nanowires into a Macroscopic Ternary Aerogel Monolith with Tailored Photocatalytic Properties. <i>Chemistry of Materials</i> , 2014 , 26, 5576-5584	9.6	56
188	Facile synthesis of N-doped TiO ₂ nanoparticles by a modified polymeric precursor method and its photocatalytic properties. <i>Applied Catalysis B: Environmental</i> , 2011 , 106, 287-294	21.8	54
187	TiO ₂ -SnO ₂ heterostructures applied to dye photodegradation: The relationship between variables of synthesis and photocatalytic performance. <i>Applied Surface Science</i> , 2014 , 298, 182-191	6.7	53
186	The interplay between morphology and photocatalytic activity in ZnO and N-doped ZnO crystals. <i>Materials and Design</i> , 2017 , 120, 363-375	8.1	52
185	Application of polysaccharide hydrogels in adsorption and controlled-extended release of fertilizers processes. <i>Journal of Applied Polymer Science</i> , 2012 , 123, 2291-2298	2.9	50

184	Evaluation of reaction factors for deposition of silica (SiO ₂) nanoparticles on cellulose fibers. <i>Carbohydrate Polymers</i> , 2014 , 114, 424-431	10.3	50
183	Role of Polymeric Coating on the Phosphate Availability as a Fertilizer: Insight from Phosphate Release by Castor Polyurethane Coatings. <i>Journal of Agricultural and Food Chemistry</i> , 2017 , 65, 5890-5895	5.7	47
182	Growth kinetics of tin oxide nanocrystals in colloidal suspensions under hydrothermal conditions. <i>Chemical Physics</i> , 2006 , 328, 229-235	2.3	47
181	Different dye degradation mechanisms for ZnO and ZnO doped with N (ZnO:N). <i>Journal of Molecular Catalysis A</i> , 2016 , 417, 89-100		44
180	Synthesis of BiVO ₄ via oxidant peroxo-method: insights into the photocatalytic performance and degradation mechanism of pollutants. <i>New Journal of Chemistry</i> , 2015 , 39, 6231-6237	3.6	44
179	Influence of TiO ₂ morphological parameters in dye photodegradation: A comparative study in peroxo-based synthesis. <i>Applied Catalysis B: Environmental</i> , 2011 , 105, 298-305	21.8	44
178	Low temperature synthesis of N-doped TiO ₂ with rice-like morphology through peroxo assisted hydrothermal route: Materials characterization and photocatalytic properties. <i>Applied Surface Science</i> , 2016 , 377, 121-133	6.7	43
177	Enhanced Cr(VI) photoreduction in aqueous solution using Nb ₂ O ₅ /CuO heterostructures under UV and visible irradiation. <i>Chemical Engineering Journal</i> , 2017 , 312, 220-227	14.7	43
176	Generation of copper nanoparticles induced by fs-laser irradiation in borosilicate glass. <i>Optics Express</i> , 2012 , 20, 15106-13	3.3	42
175	An insight toward the photocatalytic activity of S doped 1-D TiO ₂ nanorods prepared via novel route: As promising platform for environmental leap. <i>Journal of Molecular Catalysis A</i> , 2016 , 412, 78-92		41
174	WO ₃ /TiO ₂ heterostructures tailored by the oriented attachment mechanism: insights from their photocatalytic properties. <i>CrystEngComm</i> , 2014 , 16, 1514-1524	3.3	41
173	A comparative run for visible-light-driven photocatalytic activity of anionic and cationic S-doped TiO ₂ photocatalysts: A case study of possible sulfur doping through chemical protocol. <i>Journal of Molecular Catalysis A</i> , 2016 , 421, 1-15		41
172	Rapid hydrothermal synthesis and pH-dependent photocatalysis of strontium titanate microspheres. <i>Materials Science in Semiconductor Processing</i> , 2015 , 30, 651-657	4.3	40
171	Synthesis of g-C ₃ N ₄ /Nb ₂ O ₅ heterostructures and their application in the removal of organic pollutants under visible and ultraviolet irradiation. <i>Ceramics International</i> , 2017 , 43, 3521-3530	5.1	40
170	Nanoestruturas híbridas: uma revisão sobre estratégias de síntese de fotocatalisadores em escala nanométrica. <i>Química Nova</i> , 2009 , 32, 2181-2190	1.6	40
169	Rapid and morphology controlled synthesis of anionic S-doped TiO ₂ photocatalysts for the visible-light-driven photodegradation of organic pollutants. <i>RSC Advances</i> , 2016 , 6, 36516-36527	3.7	39
168	Controlled release of nitrogen-source fertilizers by natural-oil-based poly(urethane) coatings: The kinetic aspects of urea release. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	39
167	Photoactivity of N-doped ZnO nanoparticles in oxidative and reductive reactions. <i>Applied Surface Science</i> , 2018 , 433, 879-886	6.7	38

166	Vanadium-doped TiO ₂ anatase nanostructures: the role of V in solid solution formation and its effect on the optical properties. <i>CrystEngComm</i> , 2014 , 16, 5021	3.3	38
165	Phase transformation in titania nanocrystals by the oriented attachment mechanism: the role of the pH value. <i>Chemistry - A European Journal</i> , 2009 , 15, 2217-22	4.8	38
164	Vanadium pentoxide 1-D nanostructures applied to dye removal from aqueous systems by coupling adsorption and visible-light photodegradation. <i>RSC Advances</i> , 2015 , 5, 12000-12006	3.7	37
163	Sulfur fertilizer based on inverse vulcanization process with soybean oil. <i>Polymer Degradation and Stability</i> , 2019 , 162, 102-105	4.7	37
162	Acidic surface niobium pentoxide is catalytic active for CO ₂ photoreduction. <i>Applied Catalysis B: Environmental</i> , 2019 , 242, 349-357	21.8	37
161	Synthesis and characterization of eco-friendly Ca-Al-LDH loaded with phosphate for agricultural applications. <i>Applied Clay Science</i> , 2017 , 137, 143-150	5.2	35
160	Hierarchical growth of ZnO nanorods over SnO ₂ seed layer: insights into electronic properties from photocatalytic activity. <i>RSC Advances</i> , 2016 , 6, 2112-2118	3.7	35
159	Tailoring of heterostructures in a SnO ₂ /TiO ₂ system by the oriented attachment mechanism. <i>Applied Physics Letters</i> , 2007 , 91, 103105	3.4	35
158	Solar-heating boosted catalytic reduction of CO ₂ under full-solar spectrum. <i>Chinese Journal of Catalysis</i> , 2020 , 41, 131-139	11.3	34
157	Controlled Urea Release Employing Nanocomposites Increases the Efficiency of Nitrogen Use by Forage. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 9993-10001	8.3	33
156	Role of the oriented attachment mechanism in the phase transformation of oxide nanocrystals. <i>Chemistry - A European Journal</i> , 2007 , 13, 5798-803	4.8	33
155	Characterization of Single Superphosphate Powders & study of Milling Effects on Solubilization Kinetics. <i>Materials Research</i> , 2016 , 19, 98-105	1.5	33
154	An Understanding of the Photocatalytic Properties and Pollutant Degradation Mechanism of SrTiO ₃ Nanoparticles. <i>Photochemistry and Photobiology</i> , 2016 , 92, 371-8	3.6	33
153	Photoelectrochemical and theoretical investigation of the photocatalytic activity of TiO ₂ : N. <i>RSC Advances</i> , 2016 , 6, 89687-89698	3.7	32
152	CuO synthesized by solvothermal method as a high capacity adsorbent for hexavalent chromium. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 498, 161-167	5.1	32
151	Annealing effects on the photocatalytic activity of ZnO nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 3635-40	1.3	32
150	Insights into the role of CuO in the CO photoreduction process. <i>Scientific Reports</i> , 2019 , 9, 1316	4.9	31
149	The Role of the Relative Dye/Photocatalyst Concentration in TiO ₂ Assisted Photodegradation Process. <i>Photochemistry and Photobiology</i> , 2014 , 90, 66-72	3.6	31

148	Growth of BiVO ₄ Nanoparticles on a Bi ₂ O ₃ Surface: Effect of Heterojunction Formation on Visible Irradiation-Driven Catalytic Performance. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 13747-13756	3.8	31
147	Physico-chemical assessment of [Mg-Al-PO ₄]-LDHs obtained by structural reconstruction in high concentration of phosphate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016 , 497, 53-62	5.1	30
146	Microwave Hydrothermal Synthesis and Photocatalytic Performance of ZnO and M:ZnO Nanostructures (M = V, Fe, Co). <i>Science of Advanced Materials</i> , 2012 , 4, 54-60	2.3	30
145	Macro- and Micronutrient Simultaneous Slow Release from Highly Swellable Nanocomposite Hydrogels. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 3133-40	5.7	30
144	Local structure study of vanadium pentoxide 1D-nanostructures. <i>Journal of Nanoparticle Research</i> , 2011 , 13, 4937-4946	2.3	29
143	Synthesis of ZnO Nanoparticles Assisted by N Sources and their Application in the Photodegradation of Organic Contaminants. <i>ChemCatChem</i> , 2017 , 9, 3795-3804	5.2	28
142	Controlled release from hydroxyapatite nanoparticles incorporated into biodegradable, soluble host matrixes. <i>RSC Advances</i> , 2015 , 5, 104179-104186	3.7	28
141	Hydrothermal synthesis of Ti oxide nanostructures and TiO ₂ :SnO ₂ heterostructures applied to the photodegradation of rhodamine B. <i>Materials Chemistry and Physics</i> , 2012 , 135, 524-532	4.4	28
140	High-performance ultraviolet-visible driven ZnO morphologies photocatalyst obtained by microwave-assisted hydrothermal method. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 353, 358-367	4.7	28
139	Effect of synthesis parameters on the structural characteristics and photocatalytic activity of ZnO. <i>Materials Chemistry and Physics</i> , 2012 , 136, 505-511	4.4	27
138	In situ oriented crystal growth in a ceramic nanostructured system. <i>Journal of Applied Physics</i> , 2005 , 97, 024313	2.5	27
137	Nanofibras de algodão obtidas sob diferentes condições de hidratação. <i>Polimeros</i> , 2010 , 20, 264-268		26
136	Nanocomposite fibers of poly(lactic acid)/titanium dioxide prepared by solution blow spinning. <i>Polymer Bulletin</i> , 2016 , 73, 2973-2985	2.4	26
135	Charge transfer mechanism of WO ₃ /TiO ₂ heterostructure for photoelectrochemical water splitting. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 339, 95-102	4.7	25
134	Crystallization and Growth of Colloidal Nanocrystals. <i>SpringerBriefs in Materials</i> , 2012 ,	0.5	25
133	Enhancing TiO ₂ activity for CO ₂ photoreduction through MgO decoration. <i>Journal of CO₂ Utilization</i> , 2020 , 35, 106-114	7.6	25
132	A novel combined mechanical-biological approach to improve rock phosphate solubilization. <i>International Journal of Mineral Processing</i> , 2017 , 161, 50-58		24
131	Nanoscaled Platforms Based on SiO ₂ and Al ₂ O ₃ Impregnated with Potassium Permanganate Use Color Changes to Indicate Ethylene Removal. <i>Food and Bioprocess Technology</i> , 2017 , 10, 1622-1630	5.1	24

130	Heterostructure formation from hydrothermal annealing of preformed nanocrystals. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2216-2225	13	24
129	Zn-doped Nb ₂ O ₅ photocatalysts driven by visible-light: An experimental and theoretical study. <i>Materials Chemistry and Physics</i> , 2019 , 228, 160-167	4.4	24
128	A building blocks strategy for preparing photocatalytically active anatase TiO ₂ /rutile SnO ₂ heterostructures by hydrothermal annealing. <i>Journal of Colloid and Interface Science</i> , 2017 , 505, 454-459	9.3	23
127	Controlled release of nitrogen using urea-melamine-starch composites. <i>Journal of Cleaner Production</i> , 2019 , 217, 448-455	10.3	23
126	Growth kinetics of vanadium pentoxide nanostructures under hydrothermal conditions. <i>Journal of Crystal Growth</i> , 2010 , 312, 3555-3559	1.6	23
125	Insights for phase control in TiO ₂ nanoparticles from polymeric precursors method. <i>Journal of Alloys and Compounds</i> , 2008 , 466, 435-438	5.7	23
124	Electric and morphologic properties of SnO ₂ films prepared by modified sol-gel process. <i>Materials Letters</i> , 2003 , 57, 4378-4381	3.3	22
123	Study of the effect of rutile/anatase TiO ₂ nanoparticles synthesized by hydrothermal route in electrospun PVA/TiO ₂ nanocomposites. <i>Journal of Applied Polymer Science</i> , 2013 , 127, 4463-4469	2.9	21
122	Biocomposite of Cassava Starch Reinforced with Cellulose Pulp Fibers Modified with Deposition of Silica (SiO ₂) Nanoparticles. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-9	3.2	21
121	Ion-sensing properties of 1D vanadium pentoxide nanostructures. <i>Nanoscale Research Letters</i> , 2012 , 7, 310	5	21
120	An efficient synthesis route of Na ₂ V ₆ O ₁₆ ·nH ₂ O nanowires in hydrothermal conditions. <i>Materials Chemistry and Physics</i> , 2011 , 127, 56-61	4.4	20
119	ZnO:ZnWO ₄ heterostructure with enhanced photocatalytic activity for pollutant degradation in liquid and gas phases. <i>Journal of Alloys and Compounds</i> , 2019 , 797, 1299-1309	5.7	18
118	Production of heterostructured TiO ₂ /WO ₃ Nanoparticulated photocatalysts through a simple one pot method. <i>Ceramics International</i> , 2015 , 41, 3502-3510	5.1	18
117	Study of a nanocomposite starch/clay for slow-release of herbicides: Evidence of synergistic effects between the biodegradable matrix and exfoliated clay on herbicide release control. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	18
116	Eletrofiaçã de Polímeros em Soluções: parte I: fundamentos Teórica. <i>Polímeros</i> , 2012 , 22, 170-177	1.6	18
115	Morphological and photocatalytic properties of PVA/TiO ₂ nanocomposite fibers produced by electrospinning. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 5144-52	1.3	18
114	Heterogeneous Fenton reactants: a study of the behavior of iron oxide nanoparticles obtained by the polymeric precursor method. <i>Journal of Sol-Gel Science and Technology</i> , 2009 , 52, 299-303	2.3	18
113	Zinc hydroxide/oxide and zinc hydroxy stannate photocatalysts as potential scaffolds for environmental remediation. <i>New Journal of Chemistry</i> , 2015 , 39, 4624-4630	3.6	17

112	Influence of calcination parameters on the synthesis of N-doped TiO ₂ by the polymeric precursors method. <i>Journal of Solid State Chemistry</i> , 2014 , 215, 211-218	3.3	17
111	Indirect doping of microstructures fabricated by two-photon polymerization with gold nanoparticles. <i>Optics Express</i> , 2012 , 20, 21107-13	3.3	17
110	Assessment of Mass Loss and Permeability Changes during the Dewatering Process of Refractory Castables Containing Polypropylene Fibers. <i>Journal of the American Ceramic Society</i> , 2002 , 85, 2110-2112	3.8	17
109	Insights into the photocatalytic performance of BiOCO/BiVO heterostructures prepared by one-step hydrothermal method.. <i>RSC Advances</i> , 2018 , 8, 10889-10897	3.7	16
108	[Mg-Al]-LDH and [Zn-Al]-LDH as Matrices for Removal of High Loadings of Phosphate. <i>Materials Research</i> , 2018 , 21,	1.5	16
107	Biodegradable oil-based polymeric coatings on urea fertilizer: N release kinetic transformations of urea in soil. <i>Scientia Agricola</i> , 2020 , 77,	2.5	16
106	Prospective aspects of preferential {001} facets of N,S-co-doped TiO ₂ photocatalysts for visible-light-responsive photocatalytic activity. <i>RSC Advances</i> , 2016 , 6, 89274-89287	3.7	15
105	Smart Fertilization Based on Sulfur Phosphate Composites: Synergy among Materials in a Structure with Multiple Fertilization Roles. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12187-12196	8.3	14
104	Role of urea and melamine as synergic co-plasticizers for starch composites for fertilizer application. <i>International Journal of Biological Macromolecules</i> , 2020 , 144, 143-150	7.9	14
103	Unveiling CuO role in CO ₂ photoreduction process [Catalyst or reactant?]. <i>Catalysis Communications</i> , 2020 , 137, 105929	3.2	13
102	Photoprotective effect of starch/montmorillonite composites on ultraviolet-induced degradation of herbicides. <i>Reactive and Functional Polymers</i> , 2015 , 93, 156-162	4.6	13
101	Hydrothermal synthesis and photocatalytic properties of anatase TiO ₂ nanocrystals obtained from peroxytitanium complex precursor. <i>Materials Science in Semiconductor Processing</i> , 2014 , 25, 320-329	4.3	13
100	Antimony-doped tin oxide nanocrystals: synthesis and solubility behavior in organic solvents. <i>ChemPhysChem</i> , 2009 , 10, 841-6	3.2	13
99	Fluid Dynamics and Thermal Aspects of the Dewatering of High-Alumina Refractory Castables: Removal of Physically Absorbed Water. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 2696-2698	3.8	13
98	CuO Decoration Controls Nb ₂ O ₅ Photocatalyst Selectivity in CO ₂ Reduction. <i>ACS Applied Energy Materials</i> , 2020 , 3, 7629-7636	6.1	13
97	Insights into formation of anatase TiO ₂ nanoparticles from peroxy titanium complex degradation under microwave-assisted hydrothermal treatment. <i>Ceramics International</i> , 2019 , 45, 22998-23006	5.1	12
96	Nanosized lead lanthanum titanate (PLT) ceramic powders synthesized by the oxidant peroxy method. <i>Journal of Alloys and Compounds</i> , 2009 , 475, 817-821	5.7	12
95	Dynamic Permeability Behavior during Drying of Refractory Castables Based on Calcium-Free Alumina Binders. <i>Journal of the American Ceramic Society</i> , 2001 , 84, 248-250	3.8	12

94	Fabrication of SrTiO ₃ /g-C ₃ N ₄ heterostructures for visible light-induced photocatalysis. <i>Materials Science in Semiconductor Processing</i> , 2020 , 108, 104887	4.3	12
93	Facile preparation of ZnO:g-C ₃ N ₄ heterostructures and their application in amiloride photodegradation and CO ₂ photoreduction. <i>Journal of Alloys and Compounds</i> , 2021 , 856, 156798	5.7	12
92	Why nonconventional materials are answers for sustainable agriculture. <i>MRS Energy & Sustainability</i> , 2019 , 6, 1	2.2	11
91	NIOBIUM OXIDES: AN OVERVIEW OF THE SYNTHESIS OF Nb ₂ O ₅ AND ITS APPLICATION IN HETEROGENEOUS PHOTOCATALYSIS. <i>Quimica Nova</i> , 2014 ,	1.6	11
90	Electrical characterization of SnO ₂ :Sb ultrathin films obtained by controlled thickness deposition. <i>Journal of Applied Physics</i> , 2007 , 102, 034312	2.5	11
89	Oil-based polyurethane-coated urea reduces nitrous oxide emissions in a corn field in a Maryland loamy sand soil. <i>Journal of Cleaner Production</i> , 2020 , 249, 119329	10.3	11
88	Nanocomposite of starch-phosphate rock bioactivated for environmentally-friendly fertilization. <i>Minerals Engineering</i> , 2018 , 128, 230-237	4.9	11
87	A Fed-Batch Strategy Integrated with Mechanical Activation Improves the Solubilization of Phosphate Rock by <i>Aspergillus niger</i> . <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 11326-11334	8.3	10
86	Effect of processing variables on the photocatalytic properties of ZnO thin films prepared using the polymeric precursor method. <i>Ceramics International</i> , 2015 , 41, 10587-10594	5.1	10
85	Nuclear magnetic resonance spectroscopic analysis of ethyl ester yield in the transesterification of vegetable oil: an accurate method for a truly quantitative analysis. <i>Magnetic Resonance in Chemistry</i> , 2012 , 50, 1-4	2.1	10
84	Preparation and Characterization of PVA/g Nanocomposite Fibers with Antibacterial Activities. <i>Science of Advanced Materials</i> , 2010 , 2, 157-162	2.3	10
83	Strategy for Multinutrient Application in Integrated Granules Using Zein as a Coating Layer. <i>Journal of Agricultural and Food Chemistry</i> , 2018 , 66, 9582-9587	5.7	9
82	Eletrofia de polímeros em solução: parte II: aplicações e perspectivas. <i>Polimeros</i> , 2012 , 22, 178-185	1.6	9
81	Evaluation of the catalytic activity of oxide nanoparticles synthesized by the polymeric precursor method on biodiesel production. <i>Journal of Materials Research</i> , 2012 , 27, 3020-3026	2.5	9
80	Improving g-C ₃ N ₄ :WO ₃ Z-scheme photocatalytic performance under visible light by multivariate optimization of g-C ₃ N ₄ synthesis. <i>Applied Surface Science</i> , 2021 , 537, 147904	6.7	9
79	Deposition of controlled thickness ultrathin SnO ₂ :Sb films by spin-coating. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 3849-53	1.3	8
78	Controlled Thickness Deposition of Ultrathin Ceramic Films by Spin Coating. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 2016-2020	3.8	8
77	A Study of the Precursors and Photoactivity of Nanostructures of Ti Oxides Synthesized by the Alkaline Hydrothermal Method. <i>Science of Advanced Materials</i> , 2013 , 5, 71-85	2.3	8

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