Caue Ribeiro

List of Publications by Year
in descending order

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230 papers	8,164 citations	44069 48 h-index	69250 77 g-index

241 all docs	241 docs citations	241 times ranked	9961 citing authors

#	Article	IF	Citations
1	Cellulose nanofibers from white and naturally colored cotton fibers. Cellulose, 2010, 17, 595-606.	4.9	322
2	Photoluminescence in quantum-confined SnO2 nanocrystals: Evidence of free exciton decay. Applied Physics Letters, 2004, 84, 1745-1747.	3.3	237
3	Synthesis of Nb2O5 nanoparticles through the oxidant peroxide method applied to organic pollutant photodegradation: A mechanistic study. Applied Catalysis B: Environmental, 2014, 144, 800-808.	20.2	202
4	Oriented Attachment:Â An Effective Mechanism in the Formation of Anisotropic Nanocrystals. Journal of Physical Chemistry B, 2005, 109, 20842-20846.	2.6	201
5	Nanocomposite PAAm/Methyl Cellulose/Montmorillonite Hydrogel: Evidence of Synergistic Effects for the Slow Release of Fertilizers. Journal of Agricultural and Food Chemistry, 2013, 61, 7431-7439.	5.2	192
6	A Kinetic Model to Describe Nanocrystal Growth by the Oriented Attachment Mechanism. ChemPhysChem, 2005, 6, 690-696.	2.1	155
7	Ureaâ€“Montmorillonite-Extruded Nanocomposites: A Novel Slow-Release Material. Journal of Agricultural and Food Chemistry, 2012, 60, 5267-5272.	5.2	141
8	Role of Slow-Release Nanocomposite Fertilizers on Nitrogen and Phosphate Availability in Soil. Scientific Reports, 2017, 7, 46032.	3.3	135
9	Controlled synthesis of BiVO 4 photocatalysts: Evidence of the role of heterojunctions in their catalytic performance driven by visible-light. Applied Catalysis B: Environmental, 2016, 188, 87-97.	20.2	128
10	Slow release fertilizers based on urea/ureaâ€“formaldehyde polymer nanocomposites. Chemical Engineering Journal, 2016, 287, 390-397.	12.7	121
11	Impact of the colloidal state on the oriented attachment growth mechanism. Nanoscale, 2010, 2, 2336.	5.6	118
12	g-C3N4/Nb2O5 heterostructures tailored by sonochemical synthesis: Enhanced photocatalytic performance in oxidation of emerging pollutants driven by visible radiation. Applied Catalysis B: Environmental, 2017, 216, 70-79.	20.2	114
13	Vanadium Pentoxide Nanostructures: An Effective Control of Morphology and Crystal Structure in Hydrothermal Conditions. Crystal Growth and Design, 2009, 9, 3626-3631.	3.0	112
14	CeO₂nanoparticles synthesized by a microwave-assisted hydrothermal method: evolution from nanospheres to nanorods. CrystEngComm, 2012, 14, 1150-1154.	2.6	108
15	UV-enhanced ozone gas sensing response of ZnO-SnO2 heterojunctions at room temperature. Sensors and Actuators B: Chemical, 2017, 240, 573-579.	7.8	108
16	Deposition of TiO2 and Ag:TiO2 thin films by the polymeric precursor method and their application in the photodegradation of textile dyes. Applied Catalysis B: Environmental, 2009, 90, 205-212.	20.2	103
17	Nitrogen-doped titanium dioxide: An overview of material design and dimensionality effect over modern applications. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2016, 27, 1-29.	11.6	102
18	Influence of Microwave Heating on the Growth of Gadolinium-Doped Cerium Oxide Nanorods. Crystal Growth and Design, 2008, 8, 384-386.	3.0	99

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19	Novel Slow-Release Nanocomposite Nitrogen Fertilizers: The Impact of Polymers on Nanocomposite Properties and Function. Industrial & Engineering Chemistry Research, 2015, 54, 3717-3725.	3.7	92
20	Synthesis of TiO2-coated CoFe2O4 photocatalysts applied to the photodegradation of atrazine and rhodamine B in water. Applied Catalysis A: General, 2010, 382, 284-292.	4.3	91
21	Long-range and short-range structures of cube-like shape SrTiO3 powders: microwave-assisted hydrothermal synthesis and photocatalytic activity. Physical Chemistry Chemical Physics, 2013, 15, 12386.	2.8	91
22	Oriented Attachment Mechanism in Anisotropic Nanocrystals: A â€œPolymerizationâ€•Approach. ChemPhysChem, 2006, 7, 664-670.	2.1	85
23	Study of Synthesis Variables in the Nanocrystal Growth Behavior of Tin Oxide Processed by Controlled Hydrolysis. Journal of Physical Chemistry B, 2004, 108, 15612-15617.	2.6	83
24	Controlled Release of Phosphate from Layered Double Hydroxide Structures: Dynamics in Soil and Application as Smart Fertilizer. ACS Sustainable Chemistry and Engineering, 2018, 6, 5152-5161.	6.7	82
25	Sulfur fertilizer based on inverse vulcanization process with soybean oil. Polymer Degradation and Stability, 2019, 162, 102-105.	5.8	82
26	The interplay between morphology and photocatalytic activity in ZnO and N-doped ZnO crystals. Materials and Design, 2017, 120, 363-375.	7.0	79
27	Anisotropic Growth of Oxide Nanocrystals:â€‰ Insights into the Rutile TiO2 Phase. Journal of Physical Chemistry C, 2007, 111, 5871-5875.	3.1	78
28	Growth of Highly c-Axis-Oriented ZnO Nanorods on ZnO/Glass Substrate: Growth Mechanism, Structural, and Optical Properties. Journal of Physical Chemistry C, 2009, 113, 14715-14720.	3.1	77
29	Role of Polymeric Coating on the Phosphate Availability as a Fertilizer: Insight from Phosphate Release by Castor Polyurethane Coatings. Journal of Agricultural and Food Chemistry, 2017, 65, 5890-5895.	5.2	74
30	Obtaining nanocomposites of polyamide 6 and cellulose whiskers via extrusion and injection molding. Cellulose, 2014, 21, 311-322.	4.9	73
31	Evaluation of reaction factors for deposition of silica (SiO2) nanoparticles on cellulose fibers. Carbohydrate Polymers, 2014, 114, 424-431.	10.2	70
32	Application of polysaccharide hydrogels in adsorption and controlledâ€extended release of fertilizers processes. Journal of Applied Polymer Science, 2012, 123, 2291-2298.	2.6	68
33	An easy method of preparing ozone gas sensors based on ZnO nanorods. RSC Advances, 2015, 5, 19528-19533.	3.6	68
34	Controlled release of nitrogenâ€source fertilizers by naturalâ€oilâ€based poly(urethane) coatings: The kinetic aspects of urea release. Journal of Applied Polymer Science, 2016, 133, .	2.6	68
35	Self-Assembly of Metal and Metal Oxide Nanoparticles and Nanowires into a Macroscopic Ternary Aerogel Monolith with Tailored Photocatalytic Properties. Chemistry of Materials, 2014, 26, 5576-5584.	6.7	67
36	Synergistic effect on the photocatalytic activity of N-doped TiO2 nanorods synthesised by novel route with exposed (110) facet. Journal of Alloys and Compounds, 2016, 666, 38-49.	5.5	66

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37	Different dye degradation mechanisms for ZnO and ZnO doped with N (ZnO:N). Journal of Molecular Catalysis A, 2016, 417, 89-100.	4.8	65
38	Effect of TiO2 surface modification in Rhodamine B photodegradation. Journal of Sol-Gel Science and Technology, 2009, 49, 95-100.	2.4	64
39	Acidic surface niobium pentoxide is catalytic active for CO2 photoreduction. Applied Catalysis B: Environmental, 2019, 242, 349-357.	20.2	63
40	Facile synthesis of N-doped TiO2 nanoparticles by a modified polymeric precursor method and its photocatalytic properties. Applied Catalysis B: Environmental, 2011, 106, 287-294.	20.2	59
41	TiO2-SnO2 heterostructures applied to dye photodegradation: The relationship between variables of synthesis and photocatalytic performance. Applied Surface Science, 2014, 298, 182-191.	6.1	59
42	A comparative run for visible-light-driven photocatalytic activity of anionic and cationic S-doped TiO2 photocatalysts: A case study of possible sulfur doping through chemical protocol. Journal of Molecular Catalysis A, 2016, 421, 1-15.	4.8	59
43	Synthesis of BiVO₄via oxidant peroxo-method: insights into the photocatalytic performance and degradation mechanism of pollutants. New Journal of Chemistry, 2015, 39, 6231-6237.	2.8	58
44	Solar-heating boosted catalytic reduction of CO2 under full-solar spectrum. Chinese Journal of Catalysis, 2020, 41, 131-139.	14.0	58
45	Enhanced Cr(VI) photoreduction in aqueous solution using Nb2O5/CuO heterostructures under UV and visible irradiation. Chemical Engineering Journal, 2017, 312, 220-227.	12.7	55
46	Controlled Urea Release Employing Nanocomposites Increases the Efficiency of Nitrogen Use by Forage. ACS Sustainable Chemistry and Engineering, 2017, 5, 9993-10001.	6.7	53
47	Growth kinetics of tin oxide nanocrystals in colloidal suspensions under hydrothermal conditions. Chemical Physics, 2006, 328, 229-235.	1.9	52
48	An insight toward the photocatalytic activity of S doped 1-D TiO2 nanorods prepared via novel route: As promising platform for environmental leap. Journal of Molecular Catalysis A, 2016, 412, 78-92.	4.8	52
49	Low temperature synthesis of N-doped TiO 2 with rice-like morphology through peroxo assisted hydrothermal route: Materials characterization and photocatalytic properties. Applied Surface Science, 2016, 377, 121-133.	6.1	51
50	Photoactivity of N-doped ZnO nanoparticles in oxidative and reductive reactions. Applied Surface Science, 2018, 433, 879-886.	6.1	51
51	Generation of copper nanoparticles induced by fs-laser irradiation in borosilicate glass. Optics Express, 2012, 20, 15106.	3.4	50
52	Vanadium pentoxide 1-D nanostructures applied to dye removal from aqueous systems by coupling adsorption and visible-light photodegradation. RSC Advances, 2015, 5, 12000-12006.	3.6	49
53	An Understanding of the Photocatalytic Properties and Pollutant Degradation Mechanism of SrTiO₃ Nanoparticles. Photochemistry and Photobiology, 2016, 92, 371-378.	2.5	49
54	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. Ceramics International, 2017, 43, 3521-3530.	4.8	49

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55	Insights into the role of CuO in the CO2 photoreduction process. Scientific Reports, 2019, 9, 1316.	3.3	49
56	Nanoestruturas em fotocatÃ¡lise: uma revisÃ£o sobre estratÃ©gias de sÃntese de fotocatalisadores em escala nanomÃ©trica. Quimica Nova, 2009, 32, 2181-2190.	0.3	48
57	Influence of TiO2 morphological parameters in dye photodegradation: A comparative study in peroxo-based synthesis. Applied Catalysis B: Environmental, 2011, 105, 298-305.	20.2	47
58	Rapid and morphology controlled synthesis of anionic S-doped TiO₂ photocatalysts for the visible-light-driven photodegradation of organic pollutants. RSC Advances, 2016, 6, 36516-36527.	3.6	45
59	Synthesis and characterization of eco-friendly Ca-Al-LDH loaded with phosphate for agricultural applications. Applied Clay Science, 2017, 137, 143-150.	5.2	45
60	WO₃/TiO₂heterostructures tailored by the oriented attachment mechanism: insights from their photocatalytic properties. CrystEngComm, 2014, 16, 1514-1524.	2.6	44
61	Macro- and Micronutrient Simultaneous Slow Release from Highly Swellable Nanocomposite Hydrogels. Journal of Agricultural and Food Chemistry, 2016, 64, 3133-3140.	5.2	44
62	Photoelectrochemical and theoretical investigation of the photocatalytic activity of TiO₂â€‰:â€‰N. RSC Advances, 2016, 6, 89687-89698.	3.6	44
63	Hierarchical growth of ZnO nanorods over SnO₂ seed layer: insights into electronic properties from photocatalytic activity. RSC Advances, 2016, 6, 2112-2118.	3.6	44
64	Vanadium-doped TiO2 anatase nanostructures: the role of V in solid solution formation and its effect on the optical properties. CrystEngComm, 2014, 16, 5021.	2.6	43
65	Rapid hydrothermal synthesis and pH-dependent photocatalysis of strontium titanate microspheres. Materials Science in Semiconductor Processing, 2015, 30, 651-657.	4.0	43
66	CuO synthesized by solvothermal method as a high capacity adsorbent for hexavalent chromium. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 498, 161-167.	4.7	43
67	Enhancing TiO2 activity for CO2 photoreduction through MgO decoration. Journal of CO2 Utilization, 2020, 35, 106-114.	6.8	43
68	Characterization of Single Superphosphate Powders â€“ a study of Milling Effects on Solubilization Kinetics. Materials Research, 2016, 19, 98-105.	1.3	42
69	Phase Transformation in Titania Nanocrystals by the Oriented Attachment Mechanism: The Role of the pH Value. Chemistry - A European Journal, 2009, 15, 2217-2222.	3.3	41
70	Charge transfer mechanism of WO 3 /TiO 2 heterostructure for photoelectrochemical water splitting. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 339, 95-102.	3.9	39
71	Nanoscaled Platforms Based on SiO2 and Al2O3 Impregnated with Potassium Permanganate Use Color Changes to Indicate Ethylene Removal. Food and Bioprocess Technology, 2017, 10, 1622-1630.	4.7	39
72	Tailoring of heterostructures in a SnO2âˆ•TiO2 system by the oriented attachment mechanism. Applied Physics Letters, 2007, 91, 103105.	3.3	38

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73	Annealing Effects on the Photocatalytic Activity of ZnO Nanoparticles. Journal of Nanoscience and Nanotechnology, 2011, 11, 3635-3640.	0.9	38
74	Growth of BiVO₄ Nanoparticles on a Bi₂O₃ Surface: Effect of Heterojunction Formation on Visible Irradiation-Driven Catalytic Performance. Journal of Physical Chemistry C, 2017, 121, 13747-13756.	3.1	37
75	Controlled release of nitrogen using urea-melamine-starch composites. Journal of Cleaner Production, 2019, 217, 448-455.	9.3	37
76	CuO Decoration Controls Nb₂O₅ Photocatalyst Selectivity in CO₂ Reduction. ACS Applied Energy Materials, 2020, 3, 7629-7636.	5.1	37
77	Improving g-C3N4:WO3 Z-scheme photocatalytic performance under visible light by multivariate optimization of g-C3N4 synthesis. Applied Surface Science, 2021, 537, 147904.	6.1	37
78	The Role of the Relative Dye/Photocatalyst Concentration in <scp><scp>TiO</scp></scp>₂ Assisted Photodegradation Process. Photochemistry and Photobiology, 2014, 90, 66-72.	2.5	36
79	Nanocomposite fibers of poly(lactic acid)/titanium dioxide prepared by solution blow spinning. Polymer Bulletin, 2016, 73, 2973-2985.	3.3	36
80	Physico-chemical assessment of [Mg-Al-PO4]-LDHs obtained by structural reconstruction in high concentration of phosphate. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 497, 53-62.	4.7	36
81	Nanofibras de algodÃ£o obtidas sob diferentes condiÃ§Ãµes de hidrÃ³lise Ã¡cida. Polimeros, 2010, 20, 264-268.	0.7	35
82	Crystallization and Growth of Colloidal Nanocrystals. SpringerBriefs in Materials, 2012, , .	0.3	34
83	Role of the Oriented Attachment Mechanism in the Phase Transformation of Oxide Nanocrystals. Chemistry - A European Journal, 2007, 13, 5798-5803.	3.3	33
84	EletrofiaÃ§Ã£o de PolÃmeros em SoluÃ§Ã£o: parte I: fundamentaÃ§Ã£o TeÃƒÂ³rica. Polimeros, 2012, 22, 170-177.	0.7	33
85	Controlled release from hydroxyapatite nanoparticles incorporated into biodegradable, soluble host matrixes. RSC Advances, 2015, 5, 104179-104186.	3.6	33
86	Synthesis of ZnO Nanoparticles Assisted by N Sources and their Application in the Photodegradation of Organic Contaminants. ChemCatChem, 2017, 9, 3795-3804.	3.7	33
87	High-performance ultraviolet-visible driven ZnO morphologies photocatalyst obtained by microwave-assisted hydrothermal method. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 353, 358-367.	3.9	33
88	Local structure study of vanadium pentoxide 1D-nanostructures. Journal of Nanoparticle Research, 2011, 13, 4937-4946.	1.9	32
89	A novel combined mechanical-biological approach to improve rock phosphate solubilization. International Journal of Mineral Processing, 2017, 161, 50-58.	2.6	32
90	Zn-doped Nb2O5 photocatalysts driven by visible-light: An experimental and theoretical study. Materials Chemistry and Physics, 2019, 228, 160-167.	4.0	32

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91	Microwave Hydrothermal Synthesis and Photocatalytic Performance of ZnO and M:ZnO Nanostructures (M = V, Fe, Co). Science of Advanced Materials, 2012, 4, 54-60.	0.7	32
92	Effect of synthesis parameters on the structural characteristics and photocatalytic activity of ZnO. Materials Chemistry and Physics, 2012, 136, 505-511.	4.0	31
93	A building blocks strategy for preparing photocatalytically active anatase TiO2/rutile SnO2 heterostructures by hydrothermal annealing. Journal of Colloid and Interface Science, 2017, 505, 454-459.	9.4	31
94	Fabrication of SrTiO3/g-C3N4 heterostructures for visible light-induced photocatalysis. Materials Science in Semiconductor Processing, 2020, 108, 104887.	4.0	31
95	Hydrothermal synthesis of Ti oxide nanostructures and TiO2:SnO2 heterostructures applied to the photodegradation of rhodamine B. Materials Chemistry and Physics, 2012, 135, 524-532.	4.0	30
96	Biocomposite of Cassava Starch Reinforced with Cellulose Pulp Fibers Modified with Deposition of Silica (SiO₂) Nanoparticles. Journal of Nanomaterials, 2015, 2015, 1-9.	2.7	30
97	Heterostructure formation from hydrothermal annealing of preformed nanocrystals. Journal of Materials Chemistry A, 2015, 3, 2216-2225.	10.3	29
98	[Mg-Al]-LDH and [Zn-Al]-LDH as Matrices for Removal of High Loadings of Phosphate. Materials Research, 2018, 21, .	1.3	29
99	Role of urea and melamine as synergic co-plasticizers for starch composites for fertilizer application. International Journal of Biological Macromolecules, 2020, 144, 143-150.	7.5	29
100	Oil-based polyurethane-coated urea reduces nitrous oxide emissions in a corn field in a Maryland loamy sand soil. Journal of Cleaner Production, 2020, 249, 119329.	9.3	29
101	In situ oriented crystal growth in a ceramic nanostructured system. Journal of Applied Physics, 2005, 97, 024313.	2.5	28
102	ZnO:ZnWO4 heterostructure with enhanced photocatalytic activity for pollutant degradation in liquid and gas phases. Journal of Alloys and Compounds, 2019, 797, 1299-1309.	5.5	26
103	Assessment of Mass Loss and Permeability Changes during the Dewatering Process of Refractory Castables Containing Polypropylene Fibers. Journal of the American Ceramic Society, 2002, 85, 2110-2112.	3.8	24
104	Growth kinetics of vanadium pentoxide nanostructures under hydrothermal conditions. Journal of Crystal Growth, 2010, 312, 3555-3559.	1.5	24
105	Ion-sensing properties of 1D vanadium pentoxide nanostructures. Nanoscale Research Letters, 2012, 7, 310.	5.7	24
106	Study of a nanocomposite starchâ€“clay for slowâ€release of herbicides: Evidence of synergistic effects between the biodegradable matrix and exfoliated clay on herbicide release control. Journal of Applied Polymer Science, 2014, 131, .	2.6	24
107	Insights for phase control in TiO2 nanoparticles from polymeric precursors method. Journal of Alloys and Compounds, 2008, 466, 435-438.	5.5	23
108	Insights into the photocatalytic performance of Bi₂O₂CO₃/BiVO₄ heterostructures prepared by one-step hydrothermal method. RSC Advances, 2018, 8, 10889-10897.	3.6	23

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109	Smart Fertilization Based on Sulfurâ€“Phosphate Composites: Synergy among Materials in a Structure with Multiple Fertilization Roles. ACS Sustainable Chemistry and Engineering, 2018, 6, 12187-12196.	6.7	23
110	Biodegradable oil-based polymeric coatings on urea fertilizer: N release kinetic transformations of urea in soil. Scientia Agricola, 2020, 77, .	1.2	23
111	Unveiling CuO role in CO2 photoreduction process â€“ Catalyst or reactant?. Catalysis Communications, 2020, 137, 105929.	3.3	23
112	Electric and morphologic properties of SnO2 films prepared by modified solâ€“gel process. Materials Letters, 2003, 57, 4378-4381.	2.6	22
113	An efficient synthesis route of Na2V6O16Â·nH2O nanowires in hydrothermal conditions. Materials Chemistry and Physics, 2011, 127, 56-61.	4.0	22
114	Production of heterostructured TiO2/WO3 Nanoparticulated photocatalysts through a simple one pot method. Ceramics International, 2015, 41, 3502-3510.	4.8	22
115	Morphological and Photocatalytic Properties of PVA/TiO₂ Nanocomposite Fibers Produced by Electrospinning. Journal of Nanoscience and Nanotechnology, 2010, 10, 5144-5152.	0.9	21
116	Study of the effect of rutile/anatase TiO₂ nanoparticles synthesized by hydrothermal route in electrospun PVA/TiO₂ nanocomposites. Journal of Applied Polymer Science, 2013, 127, 4463-4469.	2.6	21
117	Influence of calcination parameters on the synthesis of N-doped TiO2 by the polymeric precursors method. Journal of Solid State Chemistry, 2014, 215, 211-218.	2.9	21
118	Zinc hydroxide/oxide and zinc hydroxy stannate photocatalysts as potential scaffolds for environmental remediation. New Journal of Chemistry, 2015, 39, 4624-4630.	2.8	21
119	Insights into formation of anatase TiO2 nanoparticles from peroxo titanium complex degradation under microwave-assisted hydrothermal treatment. Ceramics International, 2019, 45, 22998-23006.	4.8	21
120	Facile preparation of ZnO:g-C3N4 heterostructures and their application in amiloride photodegradation and CO2 photoreduction. Journal of Alloys and Compounds, 2021, 856, 156798.	5.5	21
121	Nanocomposite of starch-phosphate rock bioactivated for environmentally-friendly fertilization. Minerals Engineering, 2018, 128, 230-237.	4.3	20
122	Why nonconventional materials are answers for sustainable agriculture. MRS Energy & Sustainability, 2019, 6, 1.	3.0	20
123	Indirect doping of microstructures fabricated by two-photon polymerization with gold nanoparticles. Optics Express, 2012, 20, 21107.	3.4	19
124	A Novel, Simple Route to Produce Urea:Ureaâ€“Formaldehyde Composites for Controlled Release of Fertilizers. Journal of Polymers and the Environment, 2018, 26, 2448-2458.	5.0	19
125	Heterogeneous Fenton reactants: a study of the behavior of iron oxide nanoparticles obtained by the polymeric precursor method. Journal of Sol-Gel Science and Technology, 2009, 52, 299-303.	2.4	18
126	Synergy of Phosphate-Controlled Release and Sulfur Oxidation in Novel Polysulfide Composites for Sustainable Fertilization. Journal of Agricultural and Food Chemistry, 2021, 69, 2392-2402.	5.2	18

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127	Prospective aspects of preferential {001} facets of N,S-co-doped TiO₂ photocatalysts for visible-light-responsive photocatalytic activity. RSC Advances, 2016, 6, 89274-89287.	3.6	17
128	NIOBIUM OXIDES: AN OVERVIEW OF THE SYNTHESIS OF Nb₂O₅AND ITS APPLICATION IN HETEROGENEOUS PHOTOCATALYSIS. Quimica Nova, 2014, , .	0.3	16
129	Selective methane photooxidation into methanol under mild conditions promoted by highly dispersed Cu atoms on crystalline carbon nitrides. Chemical Communications, 2022, 58, 7419-7422.	4.1	16
130	Dynamic Permeability Behavior during Drying of Refractory Castables Based on Calciumâ€Free Alumina Binders. Journal of the American Ceramic Society, 2001, 84, 248-250.	3.8	15
131	Antimonyâ€Doped Tin Oxide Nanocrystals: Synthesis and Solubility Behavior in Organic Solvents. ChemPhysChem, 2009, 10, 841-846.	2.1	15
132	Polyurethane nanocomposites can increase the release control in granulated fertilizers by controlling nutrient diffusion. Applied Clay Science, 2020, 199, 105874.	5.2	15
133	Rapid microwave-assisted hydrothermal synthesis of CuBi2O4 and its application for the artificial photosynthesis. Materials Letters, 2020, 275, 128165.	2.6	15
134	Photocatalytic CO2 reduction over Nb2O5/basic bismuth nitrate nanocomposites. Materials Research Bulletin, 2021, 133, 111073.	5.2	15
135	Fluid Dynamics and Thermal Aspects of the Dewatering of Highâ€Alumina Refractory Castables: Removal of Physically Absorbed Water. Journal of the American Ceramic Society, 2001, 84, 2696-2698.	3.8	14
136	Nanosized lead lanthanum titanate (PLT) ceramic powders synthesized by the oxidant peroxo method. Journal of Alloys and Compounds, 2009, 475, 817-821.	5.5	14
137	Hydrothermal synthesis and photocatalytic properties of anatase TiO2 nanocrystals obtained from peroxytitanium complex precursor. Materials Science in Semiconductor Processing, 2014, 25, 320-329.	4.0	14
138	Photoprotective effect of starch/montmorillonite composites on ultraviolet-induced degradation of herbicides. Reactive and Functional Polymers, 2015, 93, 156-162.	4.1	14
139	Effect of processing variables on the photocatalytic properties of ZnO thin films prepared using the polymeric precursor method. Ceramics International, 2015, 41, 10587-10594.	4.8	14
140	New Approach of the Oxidant Peroxo Method (OPM) Route to Obtain Ti(OH)₄ Nanoparticles with High Photocatalytic Activity under Visible Radiation. International Journal of Photoenergy, 2018, 2018, 1-10.	2.5	14
141	Direct photo-oxidation and superoxide radical as major responsible for dye photodegradation mechanism promoted by TiO2â€“rGO heterostructure. Journal of Materials Science: Materials in Electronics, 2018, 29, 17022-17037.	2.2	14
142	Growth of tomato seedlings in substrates containing a nanocomposite hydrogel with calcium montmorillonite (NC-MMt). Horticultura Brasileira, 2019, 37, 199-203.	0.5	14
143	Electrochemical reduction of CO₂ to formic acid on Bi₂O₂CO₃/carbon fiber electrodes. Journal of Materials Research, 2020, 35, 272-280.	2.6	14
144	EletrofiaÃ§Ã£o de polÃmeros em soluÃ§Ã£o: parte II: aplicaÃ§Ãµes e perspectivas. Polimeros, 2012, 22, 178-185.	0.7	13

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145	Preparation, characterization and application of phase-pure anatase and rutile TiO2 nanoparticles by new green route. Journal of Materials Science: Materials in Electronics, 2017, 28, 16932-16938.	2.2	13
146	A Fed-Batch Strategy Integrated with Mechanical Activation Improves the Solubilization of Phosphate Rock by Aspergillus niger. ACS Sustainable Chemistry and Engineering, 2018, 6, 11326-11334.	6.7	13
147	Znâ€“Al-based layered double hydroxides (LDH) active structures for dental restorative materials. Journal of Materials Research and Technology, 2019, 8, 1250-1257.	5.8	13
148	Experimental Evidence of CO₂ Photoreduction Activity of SnO₂ Nanoparticles. ChemPhysChem, 2020, 21, 2392-2396.	2.1	13
149	Mechanochemical synthesis of eco-friendly fertilizer from eggshell (calcite) and KH2PO4. Advanced Powder Technology, 2021, 32, 4070-4077.	4.1	13
150	N-doping SrTiO3@SrCO3 heterostructure electrode: Synthesis, electrochemical characterization, and varistor application. Ceramics International, 2017, 43, 11722-11732.	4.8	13
151	Electrical characterization of SnO2:Sb ultrathin films obtained by controlled thickness deposition. Journal of Applied Physics, 2007, 102, .	2.5	12
152	Evaluation of the catalytic activity of oxide nanoparticles synthesized by the polymeric precursor method on biodiesel production. Journal of Materials Research, 2012, 27, 3020-3026.	2.6	12
153	Strategy for Multinutrient Application in Integrated Granules Using Zein as a Coating Layer. Journal of Agricultural and Food Chemistry, 2018, 66, 9582-9587.	5.2	12
154	Crystallization time in ZnO: the role of surface OH groups in its photoactivity. New Journal of Chemistry, 2020, 44, 18216-18224.	2.8	12
155	Preparation and Characterization of PVAâ€“Ag Nanocomposite Fibers with Antibacterial Activities. Science of Advanced Materials, 2010, 2, 157-162.	0.7	12
156	Enhancing Nb2O5 activity for CO2 photoreduction through Cu nanoparticles cocatalyst deposited by DC-magnetron sputtering. Journal of CO2 Utilization, 2021, 53, 101739.	6.8	12
157	Highly water soluble agrichemicals by using engineered organic salts for reducing adverse environmental impacts. Green Chemistry, 2019, 21, 6419-6429.	9.0	11
158	Synergy between castor oil polyurethane/starch polymer coating and local acidification by A. niger for increasing the efficiency of nitrogen fertilization using urea granules. Industrial Crops and Products, 2020, 154, 112717.	5.2	11
159	Towards urea and glycerol utilization as â€œbuilding blocksâ€•for polyurethane production: A detailed study about reactivity and structure for environmentally friendly polymer synthesis. Reactive and Functional Polymers, 2020, 153, 104629.	4.1	11
160	Controlled Thickness Deposition of Ultrathin Ceramic Films by Spin Coating. Journal of the American Ceramic Society, 2006, 89, 2016-2020.	3.8	10
161	Nuclear magnetic resonance spectroscopic analysis of ethyl ester yield in the transesterification of vegetable oil: an accurate method for a truly quantitative analysis. Magnetic Resonance in Chemistry, 2012, 50, 1-4.	1.9	10
162	AvaliaÃ§Ã£o do uso de resÃduos de construÃ§Ã£o e demoliÃ§Ã£o reciclados como corretivo da acidez do solo. Revista Brasileira De Ciencia Do Solo, 2013, 37, 1659-1668.	1.3	10

#	Article	IF	Citations
163	Perspectives in Nanocomposites for the Slow and Controlled Release of Agrochemicals: Fertilizers and Pesticides. , 2015, , 241-265.		10
164	Different Zn loading in Ureaâ€“Formaldehyde influences the N controlled release by structure modification. Scientific Reports, 2021, 11, 7621.	3.3	10
165	Photocatalytic materials applications for sustainable agriculture. Progress in Materials Science, 2022, 130, 100965.	32.8	10
166	Co-fertilization of Sulfur and Struvite-Phosphorus in a Slow-Release Fertilizer Improves Soybean Cultivation. Frontiers in Plant Science, 2022, 13, .	3.6	10
167	Insight into magnetite nanoparticle phase evolution in solvothermal synthesis through a simple method based on iron chloride and metallic iron. RSC Advances, 2014, 4, 53265-53272.	3.6	9
168	Blue to Yellow Photoluminescence Emission and Photocatalytic Activity of Nitrogen Doping in TiO₂Powders. International Journal of Photoenergy, 2015, 2015, 1-12.	2.5	9
169	Optimized Porous Anodic Alumina Membranes for Water Ultrafiltration of Pathogenic Bacteria (E.) Tj ETQq1 1 0.784314 rgBT /Overlo	0.9	9
170	Aminoâ€“Imino Tautomerism in the Salt Formation of Albendazole: Hydrobromide and Nitrate Salts. Crystal Growth and Design, 2021, 21, 1122-1135.	3.0	9
171	Synergy of Aspergillus niger and Components in Biofertilizer Composites Increases the Availability of Nutrients to Plants. Current Microbiology, 2021, 78, 1529-1542.	2.2	9
172	Preparation and Application of Nb2O5 Nanofibers in CO2 Photoconversion. Nanomaterials, 2021, 11, 3268.	4.1	9
173	Experimental evaluation of the activity and selectivity of pure MnWO4 and doped with rare earth ions in the CO2 photoreduction process. Materials Research Bulletin, 2022, 153, 111912.	5.2	9
174	Zinc loading in urea-formaldehyde nanocomposites increases nitrogen and zinc micronutrient fertilization efficiencies in poor sand substrate. Science of the Total Environment, 2022, 841, 156688.	8.0	9
175	Deposition of Controlled Thickness Ultrathin SnO₂:Sb Films by Spin-Coating. Journal of Nanoscience and Nanotechnology, 2006, 6, 3849-3853.	0.9	8
176	A Study of the Precursors and Photoactivity of Nanostructures of Ti Oxides Synthesized by the Alkaline Hydrothermal Method. Science of Advanced Materials, 2013, 5, 71-85.	0.7	8
177	Promoting CO2 electroreduction on boron-doped diamond electrodes: Challenges and trends. Current Opinion in Electrochemistry, 2022, 32, 100890.	4.8	8
178	Rutile supported anatase nanostructured films as photocatalysts for the degradation of water contaminants. Ceramics International, 2016, 42, 808-819.	4.8	7
179	Unveiling the role of peroxo groups in Nb2O5 photocatalytic efficiency under visible light. Materials Letters, 2020, 273, 127915.	2.6	7
180	A green K-fertilizer using mechanical activation to improve the solubilization of a low-reactivity potassium mineral by Aspergillus niger. Bioresource Technology Reports, 2021, 15, 100711.	2.7	7

#	Article	IF	Citations
181	Driving a sustainable application of s-triazine ametryn and atrazine herbicides through multicomponent crystals with improved solubility. CrystEngComm, 2021, 23, 4252-4263.	2.6	7
182	Role of Cu0-TiO2 interaction in catalyst stability in CO2 photoreduction process. Journal of Environmental Chemical Engineering, 2022, 10, 107291.	6.7	7
183	TiO₂ and SnO₂ Magnetic Nanocomposites: Influence of Semiconductors and Synthetic Methods on Photoactivity. Journal of Nanoscience and Nanotechnology, 2011, 11, 7876-7883.	0.9	6
184	High-density nanoparticle ceramic bodies. Journal of Thermal Analysis and Calorimetry, 2013, 111, 1351-1355.	3.6	6
185	Insight into the Photocatalytical Activity of TiO2 Nanoparticles Through the Electrochemical Characterization of Carbon Paste Electrodes. Electrocatalysis, 2015, 6, 92-101.	3.0	6
186	A Versatile Nb₂O₅/SnO₂ Heterostructure for Different Environmental Purposes: Water Treatment and Artificial Photosynthesis. ChemCatChem, 2021, 13, 730-738.	3.7	6
187	Improved Alfalfa Phosphate Utilization Using Zeolite Amendments in Low pH Soil. Journal of Soil Science and Plant Nutrition, 2021, 21, 1307-1317.	3.4	6
188	Photoactivity of TiO2 nanoparticles covered with nitro group in Fluoxetine and Rhodamine-B degradation. , 0, 205, 252-263.		6
189	Preparation and Photocatalytical Performance of TiO₂:SiO₂ Nanocomposites Produced by the Polymeric Precursors Method. Journal of Nanoscience and Nanotechnology, 2013, 13, 5126-5133.	0.9	5
190	SrTi1âˆ'yFeyO3 samples obtained by hydrothermal method: The effect of the amount of Fe on structural and photocatalytic properties. Materials Science in Semiconductor Processing, 2017, 68, 140-146.	4.0	5
191	Tailoring Efficient Materials for NPK All-in-One Granular Fertilization. Industrial & Engineering Chemistry Research, 2020, 59, 18387-18395.	3.7	5
192	Microwave-assisted synthesis of Ca1-xMnxMoO4 (x = 0, 0.2, 0.7, and 1) and its application in artificial photosynthesis. Ceramics International, 2021, 47, 5388-5398.	4.8	5
193	MnCl2 doping increases phase stability of tin halide perovskites. Materials Science in Semiconductor Processing, 2021, 132, 105908.	4.0	5
194	Bioactive Material with Microorganisms can Enhance the Micronutrients Solubilization and Sulfate Availability from Low Reactive Sources: Insight for Application as Coating Fertilizer Granules. Journal of Polymers and the Environment, 2022, 30, 2602-2613.	5.0	5
195	A Review of Three-Dimensional Tin Halide Perovskites as Solar Cell Materials. Materials Research, 0, 25, .	1.3	5
196	Role of Slow-Release Phosphate Nanofertilizers in Forage Nutrition and Phosphorus Lability. ACS Agricultural Science and Technology, 2022, 2, 564-572.	2.3	5
197	Improved Photocatalytic Activity of Anisotropic Rutile/Anatase TiO₂ Nanoparticles Synthesized by the Ti-Peroxo Complex Method. Journal of Nanoscience and Nanotechnology, 2012, 12, 4678-4684.	0.9	4
198	Study of the morphological evolution of vanadium pentoxide nanostructures under hydrothermal conditions. CrystEngComm, 2016, 18, 7636-7641.	2.6	4

#	Article	IF	Citations
199	ZnO/SnO2 Heterojunctions Sensors with UV-Enhanced Gas-Sensing Properties at Room Temperature. Proceedings (mdpi), 2017, 1, 418.	0.2	4
200	Effect of Different Surface-Charged Lamellar Materials on Swelling Properties of Nanocomposite Hydrogels. Journal of Polymers and the Environment, 2021, 29, 3311-3323.	5.0	4
201	Classical Crystallization Model: Nucleation and Growth. SpringerBriefs in Materials, 2012, , 19-43.	0.3	4
202	Biological treatment of asbestos cement wastes by Aspergillus niger and Acidithiobacillus thiooxidans. Applied Clay Science, 2022, 216, 106375.	5.2	4
203	Efeito da distribuiÃ§Ã£o granulomÃ©trica na secagem de concretos refratÃ¡rios. Ceramica, 2001, 47, 212-218.	0.8	3
204	Novel Aspects of the Purpose-Built Materials Strategy: Evidence of Topographic Template Effect and Oriented Attachment Growth Mechanism. Journal of Nanoscience and Nanotechnology, 2008, 8, 3447-3453.	0.9	3
205	Role of crystallinity on the optical properties of Na2V6O16Â·3H2O nanowires. Journal of Alloys and Compounds, 2018, 731, 1119-1124.	5.5	3
206	Development of a water erosion tracer using industrial residue as a source of rare earth elements. Applied Clay Science, 2020, 195, 105709.	5.2	3
207	Biological solubilization of phosphate rock by solid-state cultivation to produce eco-friendly fertilizers. Pesquisa Agropecuaria Brasileira, 0, 56, .	0.9	3
208	REDUÃ‡ÃƒO DE CO2 EM HIDROCARBONETOS E OXIGENADOS: FUNDAMENTOS, ESTRATÃ‰GIAS E DESAFIOS. Quimica Nova, 0, , .	0.3	3
209	Assembly and Properties of Nanoparticles. Nanostructure Science and Technology, 2009, , 33-79.	0.1	3
210	AvaliaÃ§Ã£o do potencial de uso da hidroxiapatita para fertilizaÃ§Ã£o de solos. Quimica Nova, 2013, 36, 790-792.	0.3	3
211	Bioâ€based composite granules with simultaneous biocontrol and phosphorus fertilization roles: Outcomes from a labâ€scale in vitro assessment. Biotechnology Progress, 2022, 38, e3242.	2.6	3
212	Oneâ€pot solvothermal synthesis of Carbon blackâ€supported CuO for catalysis of CO2 electroreduction. ChemElectroChem, 0, , .	3.4	3
213	Oriented Attachment and Mesocrystals. SpringerBriefs in Materials, 2012, , 45-68.	0.3	2
214	Trends and Perspectives in Nanoparticles Synthesis. SpringerBriefs in Materials, 2012, , 83-92.	0.3	2
215	UtilizaÃ§Ã£o de partÃculas de ZnO:Mn para a degradaÃ§Ã£o do azul de metileno por processo de fotocatÃ¡lise. Ceramica, 2016, 62, 345-350.	0.8	2
216	SEMICONDUTORES HETEROESTRUTURADOS: UMA ABORDAGEM SOBRE OS PRINCIPAIS DESAFIOS PARA A OBTENÃ‡ÃƒO E APLICAÃ‡ÃƒO EM PROCESSOS FOTOQUÃMICOS AMBIENTAIS E ENERGÃ‰TICOS. Quimica Nova, 2019, , .	0.3	2

#	Article	IF	Citations
217	Unveiling the Solubilization of Potassium Mineral Rocks in Organic Acids for Application as K-Fertilizer. Applied Biochemistry and Biotechnology, 2022, 194, 2431-2447.	2.9	2
218	AvaliaÃ§Ã£o de metodologia eletroquÃmica no monitoramento da conversÃ£o de Ã³leo de girassol em biodiesel. Quimica Nova, 2012, 35, 51-54.	0.3	1
219	A microwaveâ€based oneâ€pot process for homogeneous surface coating: improved electrochemical performance of Li(Ni_{1/3}Mn_{1/3}Co_{1/3})O₂ with a nanoâ€scaled ZnO:Al layer. Nano Select, 2021, 2, 146-157.	3.7	1
220	PreparaÃ§Ã£o e CaracterizaÃ§Ã£o de CompÃ³sitos PolimÃ©ricos Baseados em Amido TermoplÃ¡stico e Materiais de Alta Ãrea Superficial: ZeÃ³lita ZSM-5 e SÃlica Coloidal. Polimeros, 2013, 23, 236-241.	0.7	1
221	STUDY OF THE CONTROLLED RELEASE OF AMETRYN HERBICIDE USING PVA - ACTIVATED CARBON COMPOSITES. Quimica Nova, 2014, , .	0.3	1
222	Synthesis and Characterization of Tin Halide Perovskites Based on Different Tin(II) precursors. Materials Letters, 2021, 308, 131163.	2.6	1
223	Cytocompatibility and osteogenic differentiation of stem cells from human exfoliated deciduous teeth with cotton cellulose nanofibers for tissue engineering and regenerative medicine. Journal of Biomaterials Science, Polymer Edition, 2022, 33, 627-650.	3.5	1
224	Asbestos cement waste treatment through mechanochemical process with KH2PO4 for its utilization in soil pH correction and nutrient delivery. Environmental Science and Pollution Research, 2022, 29, 28804-28815.	5.3	1
225	Tuning the Photocatalytic Activity of Tin Oxide Through Mechanical Surface Activation. Journal of the Brazilian Chemical Society, 0, , .	0.6	1
226	Development of Bismuth Oxyhalides for Organic Pollutant Photodegradation and Water Oxidation: Effect of Synthesis Parameter and Halide Species. Journal of the Brazilian Chemical Society, 0, , .	0.6	1
227	Microwave hydrothermal synthesis, characterisation, and catalytic performance of Zn1â^'x MnxO in cellulose conversion. Chemical Papers, 2014, 68, .	2.2	0
228	Challenges of Synthesis and Environmental Applications of Metal-Free Nano-heterojunctions. Environmental Chemistry for A Sustainable World, 2019, , 107-138.	0.5	0
229	Oriented Attachment (OA) with Solidâ€“Solid Interface. SpringerBriefs in Materials, 2012, , 69-81.	0.3	0
230	Analysis of NH3-N Slow Release systems for fiber digestibility of low-quality forage: in vitro approach. Scientia Agricola, 2020, 77, .	1.2	0