

Pedro H C Camargo

List of Publications by Citations

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172
papers

11,043
citations

46
h-index

103
g-index

192
ext. papers

12,205
ext. citations

7.4
avg, IF

6.46
L-index

#	Paper	IF	Citations
172	Pd-Pt bimetallic nanodendrites with high activity for oxygen reduction. <i>Science</i> , 2009 , 324, 1302-5	33.3	2605
171	Nanocomposites: synthesis, structure, properties and new application opportunities. <i>Materials Research</i> , 2009 , 12, 1-39	1.5	802
170	Dimers of silver nanospheres: facile synthesis and their use as hot spots for surface-enhanced Raman scattering. <i>Nano Letters</i> , 2009 , 9, 485-90	11.5	539
169	Shape-Controlled Synthesis of Pd Nanocrystals in Aqueous Solutions. <i>Advanced Functional Materials</i> , 2009 , 19, 189-200	15.6	529
168	Synthesis of Pd-Pt bimetallic nanocrystals with a concave structure through a bromide-induced galvanic replacement reaction. <i>Journal of the American Chemical Society</i> , 2011 , 133, 6078-89	16.4	364
167	Facile synthesis of highly faceted multioctahedral Pt nanocrystals through controlled overgrowth. <i>Nano Letters</i> , 2008 , 8, 4043-7	11.5	221
166	Facile synthesis of bimetallic nanoplates consisting of Pd cores and Pt shells through seeded epitaxial growth. <i>Nano Letters</i> , 2008 , 8, 2535-40	11.5	209
165	Understanding the SERS Effects of Single Silver Nanoparticles and Their Dimers, One at a Time. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 696-703	6.4	188
164	Nucleation and growth mechanisms for Pd-Pt bimetallic nanodendrites and their electrocatalytic properties. <i>Nano Research</i> , 2010 , 3, 69-80	10	177
163	Facile Synthesis of Sub-20 nm Silver Nanowires through a Bromide-Mediated Polyol Method. <i>ACS Nano</i> , 2016 , 10, 7892-900	16.7	173
162	Carbon nitrides and metal nanoparticles: from controlled synthesis to design principles for improved photocatalysis. <i>Chemical Society Reviews</i> , 2018 , 47, 7783-7817	58.5	167
161	Synthesis and characterization of noble-metal nanostructures containing gold nanorods in the center. <i>Advanced Materials</i> , 2010 , 22, 744-8	24	149
160	Isolating and probing the hot spot formed between two silver nanocubes. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2180-4	16.4	148
159	Galvanic replacement reaction: recent developments for engineering metal nanostructures towards catalytic applications. <i>Chemical Communications</i> , 2017 , 53, 7135-7148	5.8	142
158	Nanocatalysis by noble metal nanoparticles: controlled synthesis for the optimization and understanding of activities. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 5857-5874	13	142
157	Cation exchange: a simple and versatile route to inorganic colloidal spheres with the same size but different compositions and properties. <i>Langmuir</i> , 2007 , 23, 2985-92	4	140
156	Synthesis and Optical Properties of Cubic Gold Nanoframes. <i>Nano Research</i> , 2008 , 1, 441-449	10	128

155	Mechanistic study of the synthesis of Au nanotadpoles, nanokites, and microplates by reducing aqueous HAuCl ₄ with poly(vinyl pyrrolidone). <i>Langmuir</i> , 2008 , 24, 10437-42	4	125
154	A facile synthesis of asymmetric hybrid colloidal particles. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1352-3	16.4	120
153	Surface-enhanced Raman scattering: comparison of three different molecules on single-crystal nanocubes and nanospheres of silver. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 3932-9	2.8	119
152	Etching and dimerization: a simple and versatile route to dimers of silver nanospheres with a range of sizes. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 164-8	16.4	118
151	Facile synthesis of tadpole-like nanostructures consisting of Au heads and Pd tails. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15452-3	16.4	116
150	Correlating catalytic activity of Ag-Au nanoparticles with 3D compositional variations. <i>Nano Letters</i> , 2014 , 14, 1921-6	11.5	113
149	Twin-induced growth of palladium-platinum alloy nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6304-8	16.4	113
148	A facile, water-based synthesis of highly branched nanostructures of silver. <i>Langmuir</i> , 2008 , 24, 12042-6	4	111
147	Probing the surface-enhanced Raman scattering properties of Au-Ag nanocages at two different excitation wavelengths. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 5903-8	3.6	104
146	Template-assisted self-assembly: a versatile approach to complex micro- and nanostructures. <i>Soft Matter</i> , 2009 , 5, 1129-1136	3.6	99
145	Measuring the SERS Enhancement Factors of Dimers with Different Structures Constructed from Silver Nanocubes. <i>Chemical Physics Letters</i> , 2010 , 484, 304-308	2.5	99
144	Chemical transformation: a powerful route to metal chalcogenide nanowires. <i>Journal of Materials Chemistry</i> , 2006 , 16, 3893		99
143	Synthesis of Colloidal Metal Nanocrystals: A Comprehensive Review on the Reductants. <i>Chemistry - A European Journal</i> , 2018 , 24, 16944-16963	4.8	93
142	A facile approach to TiO ₂ colloidal spheres decorated with Au nanoparticles displaying well-defined sizes and uniform dispersion. <i>Langmuir</i> , 2013 , 29, 1642-9	4	89
141	Controlling the Selectivity of the Surface Plasmon Resonance Mediated Oxidation of p-Aminothiophenol on Au Nanoparticles by Charge Transfer from UV-excited TiO ₂ . <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6909-12	16.4	88
140	New insights into the growth mechanism and surface structure of palladium nanocrystals. <i>Nano Research</i> , 2010 , 3, 180-188	10	88
139	Plasmonic Nanorattles as Next-Generation Catalysts for Surface Plasmon Resonance-Mediated Oxidations Promoted by Activated Oxygen. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 7111-5	16.4	80
138	Microscale fish bowls: a new class of latex particles with hollow interiors and engineered porous structures in their surfaces. <i>Langmuir</i> , 2007 , 23, 10968-75	4	73

137	Facile synthesis of branched Au nanostructures by templating against a self-destructive lattice of magnetic Fe nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2008 , 47, 9653-6	16.4	72
136	STEM-EDX tomography of bimetallic nanoparticles: A methodological investigation. <i>Ultramicroscopy</i> , 2016 , 162, 61-73	3.1	64
135	Measuring the surface-enhanced Raman scattering enhancement factors of hot spots formed between an individual Ag nanowire and a single Ag nanocube. <i>Nanotechnology</i> , 2009 , 20, 434020	3.4	60
134	Challenges and opportunities in the bottom-up mechanochemical synthesis of noble metal nanoparticles. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 16114-16141	13	60
133	Investigating the Plasmon-Mediated Catalytic Activity of AgAu Nanoparticles as a Function of Composition: Are Two Metals Better than One?. <i>ACS Catalysis</i> , 2014 , 4, 3815-3819	13.1	59
132	Epitaxial overgrowth of platinum on palladium nanocrystals. <i>Nanoscale</i> , 2010 , 2, 2406-11	7.7	59
131	Controlling Reaction Selectivity over Hybrid Plasmonic Nanocatalysts. <i>Nano Letters</i> , 2018 , 18, 7289-7297	11.5	57
130	Thiol-induced assembly of Au nanoparticles into chainlike structures and their fixing by encapsulation in silica shells or gelatin microspheres. <i>Langmuir</i> , 2010 , 26, 10005-12	4	56
129	Real-time imaging and elemental mapping of AgAu nanoparticle transformations. <i>Nanoscale</i> , 2014 , 6, 13598-605	7.7	55
128	MnO ₂ nanowires decorated with Au ultrasmall nanoparticles for the green oxidation of silanes and hydrogen production under ultralow loadings. <i>Applied Catalysis B: Environmental</i> , 2016 , 184, 35-43	21.8	49
127	Triangular metal nanoprisms of Ag, Au, and Cu: Modeling the influence of size, composition, and excitation wavelength on the optical properties. <i>Chemical Physics</i> , 2013 , 423, 142-150	2.3	48
126	Understanding the Effect of Adsorption Geometry over Substrate Selectivity in the Surface-Enhanced Raman Scattering Spectra of Simazine and Atrazine. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 4184-4190	3.8	42
125	Tailoring the structure, composition, optical properties and catalytic activity of AgAu nanoparticles by the galvanic replacement reaction. <i>Chemical Physics Letters</i> , 2012 , 531, 188-192	2.5	40
124	Carbon-supported TiO ₂ /Au hybrids as catalysts for the electrogeneration of hydrogen peroxide: Investigating the effect of TiO ₂ shape. <i>Journal of Catalysis</i> , 2015 , 326, 100-106	7.3	39
123	The Fault in Their Shapes: Investigating the Surface-Plasmon-Resonance-Mediated Catalytic Activities of Silver Quasi-Spheres, Cubes, Triangular Prisms, and Wires. <i>Langmuir</i> , 2015 , 31, 10272-8	4	39
122	Recent Advances in Plasmonic Photocatalysis Based on TiO and Noble Metal Nanoparticles for Energy Conversion, Environmental Remediation, and Organic Synthesis. <i>Small</i> , 2021 , e2101638	11	39
121	Colloidal building blocks with potential for magnetically configurable photonic crystals. <i>Soft Matter</i> , 2007 , 3, 1215-1222	3.6	38
120	Why Could the Nature of Surface Facets Lead to Differences in the Activity and Stability of Cu ₂ O-Based Electrocatalytic Sensors?. <i>ACS Catalysis</i> , 2018 , 8, 6265-6272	13.1	37

119	Controlling Size, Morphology, and Surface Composition of AgAu Nanodendrites in 15 s for Improved Environmental Catalysis under Low Metal Loadings. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 25624-32	9.5	37
118	Functionalization of ZrO ₂ nanofibers with Pt nanostructures: The effect of surface roughness on nucleation mechanism and morphology control. <i>Chemical Physics Letters</i> , 2009 , 476, 56-61	2.5	35
117	Carbon-supported MnO ₂ nanoflowers: Introducing oxygen vacancies for optimized volcano-type electrocatalytic activities towards H ₂ O ₂ generation. <i>Electrochimica Acta</i> , 2018 , 268, 101-110	6.7	34
116	Ceria high aspect ratio nanostructures supported on carbon for hydrogen peroxide electrogeneration. <i>Electrochimica Acta</i> , 2018 , 259, 865-872	6.7	31
115	Understanding plasmonic catalysis with controlled nanomaterials based on catalytic and plasmonic metals. <i>Current Opinion in Colloid and Interface Science</i> , 2019 , 39, 110-122	7.6	30
114	Sub-15 nm CeO ₂ nanowires as an efficient non-noble metal catalyst in the room-temperature oxidation of aniline. <i>Catalysis Science and Technology</i> , 2018 , 8, 1828-1839	5.5	30
113	Controlling the Selectivity of the Surface Plasmon Resonance Mediated Oxidation of p-Aminothiophenol on Au Nanoparticles by Charge Transfer from UV-excited TiO ₂ . <i>Angewandte Chemie</i> , 2015 , 127, 7013-7016	3.6	30
112	Controlled synthesis of noble metal nanomaterials: motivation, principles, and opportunities in nanocatalysis. <i>Anais Da Academia Brasileira De Ciencias</i> , 2018 , 90, 719-744	1.4	27
111	AgPt Hollow Nanodendrites: Synthesis and Uniform Dispersion over SiO ₂ Support for Catalytic Applications. <i>ChemNanoMat</i> , 2015 , 1, 46-51	3.5	27
110	Seed-mediated synthesis of PdRh bimetallic nanodendrites. <i>Chemical Physics Letters</i> , 2010 , 494, 249-254	2.5	27
109	Rapid synthesis of hollow Ag-Au nanodendrites in 15 seconds by combining galvanic replacement and precursor reduction reactions. <i>Chemistry - A European Journal</i> , 2014 , 20, 15040-6	4.8	26
108	Synthesis, Transformation, and Utilization of Monodispersed Colloidal Spheres. <i>Accounts of Chemical Research</i> , 2019 , 52, 3475-3487	24.3	26
107	Ni supported Ce _{0.9} Sm _{0.1} O ₂ -nanowires: An efficient catalyst for ethanol steam reforming for hydrogen production. <i>Fuel</i> , 2019 , 237, 1244-1253	7.1	26
106	Supports matter: unraveling the role of charge transfer in the plasmonic catalytic activity of silver nanoparticles. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 11720-11729	13	25
105	Probing the catalytic activity of bimetallic versus trimetallic nanoshells. <i>Journal of Materials Science</i> , 2015 , 50, 5620-5629	4.3	25
104	Silane-based poly(ethylene glycol) as a primer for surface modification of nonhydrolytically synthesized nanoparticles using the Stober method. <i>Langmuir</i> , 2008 , 24, 11189-95	4	24
103	Pd-based nanoflowers catalysts: controlling size, composition, and structures for the 4-nitrophenol reduction and BTX oxidation reactions. <i>Journal of Materials Science</i> , 2016 , 51, 603-614	4.3	23
102	Laccase stabilized on ED-glucan films on the surface of carbon black/gold nanoparticles: A new platform for electrochemical biosensing. <i>Bioelectrochemistry</i> , 2019 , 129, 116-123	5.6	22

101	Chemometric-assisted construction of a biosensing device to measure chlorogenic acid content in brewed coffee beverages to discriminate quality. <i>Food Chemistry</i> , 2020 , 315, 126306	8.5	22
100	Rational design of plasmonic catalysts: matching the surface plasmon resonance with lamp emission spectra for improved performance in AgAu nanorings. <i>RSC Advances</i> , 2016 , 6, 62286-62290	3.7	22
99	Synthesis of highly dispersed gold nanoparticles on Al ₂ O ₃ , SiO ₂ , and TiO ₂ for the solvent-free oxidation of benzyl alcohol under low metal loadings. <i>Journal of Materials Science</i> , 2019 , 54, 238-251	4.3	22
98	Investigating the effect of MnO ₂ band gap in hybrid MnO ₂ /Au materials over the SPR-mediated activities under visible light. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 925-931	13	20
97	Hollow AgPt/SiO ₂ nanomaterials with controlled surface morphologies: is the number of Pt surface atoms imperative to optimize catalytic performances?. <i>Catalysis Science and Technology</i> , 2016 , 6, 2162-2170	5.5	20
96	Combining active phase and support optimization in MnO-Au nanoflowers: Enabling high activities towards green oxidations. <i>Journal of Colloid and Interface Science</i> , 2018 , 530, 282-291	9.3	20
95	Synthesis and application of RuSe ₂ + nanotubes as a methanol tolerant electrocatalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry</i> , 2009 , 19, 1024-1030		20
94	Titanium and iron oxides produced by sol-gel processing of [FeCl{Ti ₂ (OPri) ₉ }] ⁻ : structural, spectroscopic and morphological features. <i>Materials Research Bulletin</i> , 2003 , 38, 1915-1928	5.1	20
93	In situ FTIR insights into the electrooxidation mechanism of glucose as a function of the surface facets of Cu ₂ O-based electrocatalytic sensors. <i>Journal of Catalysis</i> , 2019 , 375, 95-103	7.3	19
92	Pt-Decorated TiO ₂ Materials Supported on Carbon: Increasing Activities and Stabilities toward the ORR by Tuning the Pt Loading. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5759-5768	6.1	19
91	Comparative study on the far-field spectra and near-field amplitudes for silver and gold nanocubes irradiated at 514, 633 and 785 nm as a function of the edge length. <i>European Physical Journal D</i> , 2012 , 66, 1	1.3	19
90	On the optical properties of copper nanocubes as a function of the edge length as modeled by the discrete dipole approximation. <i>Chemical Physics Letters</i> , 2012 , 544, 64-69	2.5	19
89	Silver-gold nanotubes containing hot spots on their surface: facile synthesis and surface-enhanced Raman scattering investigations. <i>RSC Advances</i> , 2012 , 2, 9801	3.7	19
88	Application and stability of cathodes with manganese dioxide nanoflowers supported on Vulcan by Fenton systems for the degradation of RB5 azo dye. <i>Chemosphere</i> , 2018 , 208, 131-138	8.4	19
87	Cu ₂ O spheres as an efficient source of catalytic Cu(I) species for performing azide-alkyne click reactions. <i>Tetrahedron Letters</i> , 2017 , 58, 590-595	2	18
86	PdPt-TiO ₂ nanowires: correlating composition, electronic effects and O-vacancies with activities towards water splitting and oxygen reduction. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119177	21.8	18
85	Role of the metal-support interface in the hydrodeoxygenation reaction of phenol. <i>Applied Catalysis B: Environmental</i> , 2020 , 277, 119238	21.8	18
84	Amperometric determination of ascorbic acid with a glassy carbon electrode modified with TiO-gold nanoparticles integrated into carbon nanotubes. <i>Mikrochimica Acta</i> , 2018 , 185, 251	5.8	18

83	Reaction Pathway Dependence in Plasmonic Catalysis: Hydrogenation as a Model Molecular Transformation. <i>Chemistry - A European Journal</i> , 2018 , 24, 12330-12339	4.8	18
82	Green synthesis of Au decorated CoFeO nanoparticles for catalytic reduction of 4-nitrophenol and dimethylphenylsilane oxidation.. <i>RSC Advances</i> , 2019 , 9, 22116-22123	3.7	18
81	New Fell starting materials: preparation, characterisation and structural features of iron halide complexes with alcohol ligands. <i>Inorganica Chimica Acta</i> , 2004 , 357, 1219-1228	2.7	18
80	Bimetallic Nanoshells as Platforms for Metallo- and Biometallo-Catalytic Applications. <i>ChemCatChem</i> , 2016 , 8, 171-179	5.2	17
79	Tuning Thermal Catalytic Enhancement in Doped MnO-Au Nano-Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 17444-17451	9.5	16
78	Probing the Catalytic Activity of Reduced Graphene Oxide Decorated with Au Nanoparticles Triggered by Visible Light. <i>Chemistry - A European Journal</i> , 2015 , 21, 9889-94	4.8	16
77	Emeraldine Salt Form of Polyaniline as a Probe Molecule for Surface Enhanced Raman Scattering Substrates Excited at 1064 nm. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18199-18205	3.8	16
76	Plasmonic Nanorattles as Next-Generation Catalysts for Surface Plasmon Resonance-Mediated Oxidations Promoted by Activated Oxygen. <i>Angewandte Chemie</i> , 2016 , 128, 7227-7231	3.6	15
75	Surface Segregated AgAu Tadpole-Shaped Nanoparticles Synthesized Via a Single Step Combined Galvanic and Citrate Reduction Reaction. <i>Chemistry - A European Journal</i> , 2015 , 21, 12314-20	4.8	15
74	Mineralization of paracetamol using a gas diffusion electrode modified with ceria high aspect ratio nanostructures. <i>Electrochimica Acta</i> , 2019 , 295, 39-49	6.7	15
73	Employing Calcination as a Facile Strategy to Reduce the Cytotoxicity in CoFeO and NiFeO Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 39830-39838	9.5	14
72	Design-controlled synthesis of IrO sub-monolayers on Au nanoflowers: marrying plasmonic and electrocatalytic properties. <i>Nanoscale</i> , 2020 , 12, 12281-12291	7.7	14
71	Furfural Oxidation on Gold Supported on MnO ₂ : Influence of the Support Structure on the Catalytic Performances. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1246	2.6	14
70	Efficient ceria/bilica catalysts for BTX oxidation: Probing the catalytic performance and oxygen storage. <i>Chemical Engineering Journal</i> , 2016 , 286, 369-376	14.7	13
69	Detoxification of organophosphates using imidazole-coated Ag, Au and AgAu nanoparticles. <i>RSC Advances</i> , 2017 , 7, 40711-40719	3.7	13
68	Tandem X-ray absorption spectroscopy and scattering for in situ time-resolved monitoring of gold nanoparticle mechanosynthesis. <i>Chemical Communications</i> , 2020 , 56, 10329-10332	5.8	13
67	Investigating the role of reducing agents on mechanosynthesis of Au nanoparticles. <i>CrystEngComm</i> , 2020 , 22, 6261-6267	3.3	12
66	Controlled Synthesis of Nanomaterials at the Undergraduate Laboratory: Cu(OH) ₂ and CuO Nanowires. <i>Journal of Chemical Education</i> , 2017 , 94, 743-750	2.4	11

65	Visible light plasmon excitation of silver nanoparticles against antibiotic-resistant <i>Pseudomonas aeruginosa</i> . <i>Photodiagnosis and Photodynamic Therapy</i> , 2020 , 31, 101908	3.5	11
64	Marrying SPR excitation and metal-support interactions: unravelling the contribution of active surface species in plasmonic catalysis. <i>Nanoscale</i> , 2018 , 10, 8560-8568	7.7	11
63	Size-controlled synthesis of silver micro/nanowires as enabled by HCL oxidative etching. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 1887-93	3.6	11
62	Synthesis of Fe/Ti oxides from a single source alkoxide precursor under inert atmosphere. <i>Journal of the Brazilian Chemical Society</i> , 2008 , 19, 1501-1512	1.5	11
61	Gold-amine cooperative catalysis for reductions and reductive aminations using formic acid as hydrogen source. <i>Applied Catalysis B: Environmental</i> , 2020 , 267, 118728	21.8	10
60	Addressing the Effects of Size-dependent Absorption, Scattering, and Near-field Enhancements in Plasmonic Catalysis. <i>ChemCatChem</i> , 2018 , 10, 3447-3452	5.2	10
59	A mechano-colloidal approach for the controlled synthesis of metal nanoparticles. <i>Chemical Communications</i> , 2019 , 55, 14267-14270	5.8	10
58	Ethanol steam reforming: understanding changes in the activity and stability of Rh/MxOy catalysts as function of the support. <i>Journal of Materials Science</i> , 2019 , 54, 11400-11416	4.3	9
57	Controlling Reduction Kinetics in the Galvanic Replacement Involving Metal Oxides Templates: Elucidating the Formation of Bimetallic Bowls, Rattles, and Dendrites from Cu2O Spheres. <i>Particle and Particle Systems Characterization</i> , 2018 , 35, 1700175	3.1	9
56	Catalytic Properties of AgPt Nanoshells as a Function of Size: Larger Outer Diameters Lead to Improved Performances. <i>Langmuir</i> , 2016 , 32, 9371-9	4	9
55	Size dependence of ultrafast charge dynamics in monodisperse Au nanoparticles supported on TiO ₂ colloidal spheres. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 14189-94	3.6	9
54	Investigating the influence of the interface in thiol-functionalized silver-gold nanoshells over lipase activity. <i>Langmuir</i> , 2013 , 29, 15974-80	4	9
53	Functionalization of gold and silver nanoparticles with diphenyl dichalcogenides probed by surface enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2012 , 43, 712-717	2.3	9
52	On the Effect of Native SiO ₂ on Si over the SPR-mediated Photocatalytic Activities of Au and Ag Nanoparticles. <i>Chemistry - A European Journal</i> , 2017 , 23, 7185-7190	4.8	8
51	Understanding the limitations of the Super-X energy dispersive x-ray spectrometer as a function of specimen tilt angle for tomographic data acquisition in the S/TEM. <i>Journal of Physics: Conference Series</i> , 2014 , 522, 012025	0.3	8
50	Piperazine-promoted gold-catalyzed hydrogenation: the influence of capping ligands. <i>Catalysis Science and Technology</i> , 2020 , 10, 1996-2003	5.5	8
49	Investigating the repair of alveolar bone defects by gelatin methacrylate hydrogels-encapsulated human periodontal ligament stem cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2019 , 31, 3	4.5	8
48	Mechanistic Insights into the Light-Driven Catalysis of an Immobilized Lipase on Plasmonic Nanomaterials. <i>ACS Catalysis</i> , 2021 , 11, 414-423	13.1	8

47	Exploiting the Synergetic Behavior of PtPd Bimetallic Catalysts in the Selective Hydrogenation of Glucose and Furfural. <i>Catalysts</i> , 2019 , 9, 132	4	7
46	A Facile Strategy to Support Palladium Nanoparticles on Carbon Nanotubes, Employing Polyvinylpyrrolidone as a Surface Modifier. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 1439-1443	2.3	7
45	Systematic investigation of the effect of oxygen mobility on CO oxidation over AgPt nanoshells supported on CeO ₂ , TiO ₂ and Al ₂ O ₃ . <i>Journal of Materials Science</i> , 2017 , 52, 13764-13778	4.3	7
44	Sol-gel processing of a bimetallic alkoxide precursor confined in a porous glass matrix: a route to novel glass/metal oxide nanocomposites. <i>Journal of Colloid and Interface Science</i> , 2006 , 299, 291-6	9.3	7
43	Plasmonic catalysis with designer nanoparticles.. <i>Chemical Communications</i> , 2022 ,	5.8	7
42	An Overview of the Photocatalytic H ₂ Evolution by Semiconductor-Based Materials for Nonspecialists. <i>Journal of the Brazilian Chemical Society</i> ,	1.5	7
41	Gold-Rhodium Nanoflowers for the Plasmon-Enhanced Hydrogen Evolution Reaction under Visible Light. <i>ACS Catalysis</i> , 13543-13555	13.1	7
40	2021 ,		7
39	Atomic-Precision Tailoring of Au-Ag Core-Shell Composite Nanoparticles for Direct Electrochemical-Plasmonic Hydrogen Evolution in Water Splitting. <i>Advanced Functional Materials</i> , 2021 , 31, 2102517	15.6	7
38	Tuning band gap of MnO ₂ nanoflowers by Alkali metal doping for enhanced Ferroptosis/phototherapy synergism in Cancer. <i>Applied Materials Today</i> , 2021 , 23, 101027	6.6	7
37	On the effect of TiO ₂ nanocrystallites over the plasmonic photodegradation by Au nanoparticles. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 1953-1960	2.3	7
36	AN UNDERGRADUATE LEVEL EXPERIMENT ON THE SYNTHESIS OF Au NANOPARTICLES AND THEIR SIZE-DEPENDENT OPTICAL AND CATALYTIC PROPERTIES. <i>Quimica Nova</i> , 2014 ,	1.6	6
35	MWCNT-COOH supported PtSnNi electrocatalysts for direct ethanol fuel cells: Low Pt content, selectivity and chemical stability. <i>Renewable Energy</i> , 2019 , 143, 1397-1405	8.1	5
34	Synthesis and characterization of monodisperse colloidal spheres of Pb containing superparamagnetic Fe ₃ O ₄ nanoparticles. <i>Chemical Physics Letters</i> , 2007 , 436, 213-217	2.5	5
33	Chemical versus electrochemical: What is the best synthesis method to ternary GO/WO ₃ NW/PAni nanocomposites to improve performance as supercapacitor?. <i>Electrochimica Acta</i> , 2020 , 356, 136786	6.7	5
32	Improving the Electrocatalytic Activities and CO Tolerance of Pt NPs by Incorporating TiO ₂ Nanocubes onto Carbon Supports. <i>ChemCatChem</i> , 2021 , 13, 1931-1939	5.2	5
31	Evaluating Gold and Selenium Chemistry for Selective Transformations of Lignin Model Compounds. <i>Advanced Synthesis and Catalysis</i> , 2018 , 360, 1376-1383	5.6	4
30	Theoretical Design and Experimental Realization of Quasi Single Electron Enhancement in Plasmonic Catalysis. <i>Angewandte Chemie</i> , 2015 , 127, 14635-14639	3.6	4

29	New titanium(IV) and vanadium(IV) haloalkoxides: synthetic route and structural characterisation. <i>Journal of the Brazilian Chemical Society</i> , 2003 , 14, 922-929	1.5	4
28	Single-source precursor and homometal approaches to the sol-gel synthesis of iron and titanium oxides 2004 , 221-226		4
27	Controlled Synthesis: Nucleation and Growth in Solution 2015 , 49-74		4
26	Automated Single-Particle Reconstruction of Heterogeneous Inorganic Nanoparticles. <i>Microscopy and Microanalysis</i> , 2020 , 26, 1168-1175	0.5	4
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