

Maria Muoz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88 papers	2,204 citations	27 h-index	42 g-index
90 ext. papers	2,339 ext. citations	5.4 avg, IF	4.49 L-index

#	Paper	IF	Citations
88	Metal nanoparticle-carbon nanotubes hybrid catalysts immobilized in a polymeric membrane for the reduction of 4-nitrophenol. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	10
87	In Situ Characterization of Size, Spatial Distribution, Chemical Composition, and Electroanalytical Response of Hybrid Nanocomposite Materials 2018 , 251-288		1
86	Intermatrix synthesis of Ag, AgAu and Au nanoparticles by the galvanic replacement strategy for bactericidal and electrocatalytically active nanocomposites. <i>New Journal of Chemistry</i> , 2016 , 40, 10344-10352	2.6	8
85	CdS quantum dots as a scattering nanomaterial of carbon nanotubes in polymeric nanocomposite sensors for microelectrode array behavior. <i>Journal of Materials Science</i> , 2016 , 51, 1610-1619	4.3	12
84	Chemical and electrochemical characterization of Nafion containing silver nanoparticles in a stripe-like distribution. <i>RSC Advances</i> , 2016 , 6, 9923-9931	3.7	6
83	Intermatrix Synthesis as a rapid, inexpensive and reproducible methodology for the in situ functionalization of nanostructured surfaces with quantum dots. <i>Applied Surface Science</i> , 2016 , 368, 417-426	6.7	16
82	Polyurethane foams doped with stable silver nanoparticles as bactericidal and catalytic materials for the effective treatment of water. <i>New Journal of Chemistry</i> , 2016 , 40, 3716-3725	3.6	16
81	Self-oriented Ag-based polycrystalline cubic nanostructures through polymer stabilization. <i>Nanotechnology</i> , 2016 , 27, 425603	3.4	
80	Bi-Functional Polymer-Metal Nanocomposites: Modification of Ion-Exchange Materials with Silver Nanoparticles. <i>Solvent Extraction and Ion Exchange</i> , 2015 , 33, 152-165	2.5	1
79	Activity-tunable nanocomposites based on dissolution and in situ recrystallization of nanoparticles on ion exchange resins. <i>RSC Advances</i> , 2015 , 5, 89971-89975	3.7	1
78	Simple green routes for the customized preparation of sensitive carbon nanotubes/epoxy nanocomposite electrodes with functional metal nanoparticles. <i>RSC Advances</i> , 2014 , 4, 44517-44524	3.7	16
77	Uncommon patterns in Nafion films loaded with silver nanoparticles. <i>Chemical Communications</i> , 2014 , 50, 4693-5	5.8	13
76	Polymer-Metal Nanocomposites Containing Dual-Function Metal Nanoparticles: Ion-Exchange Materials Modified with Catalytically-Active and Bactericide Silver Nanoparticles. <i>Solvent Extraction and Ion Exchange</i> , 2014 , 32, 301-315	2.5	6
75	Morphological changes of gel-type functional polymers after intermatrix synthesis of polymer stabilized silver nanoparticles. <i>Nanoscale Research Letters</i> , 2013 , 8, 255	5	13
74	Development of novel catalytically active polymer-metal-nanocomposites based on activated foams and textile fibers. <i>Nanoscale Research Letters</i> , 2013 , 8, 238	5	4
73	Superparamagnetic Ag@Co-Nanocomposites on Granulated Cation Exchange Polymeric Matrices with Enhanced Antibacterial Activity for the Environmentally Safe Purification of Water. <i>Advanced Functional Materials</i> , 2013 , 23, 2450-2458	15.6	42
72	Donnan exclusion driven intermatrix synthesis of reusable polymer stabilized palladium nanocatalysts. <i>Catalysis Today</i> , 2012 , 193, 207-212	5.3	17

71	Recyclable polymer-stabilized nanocatalysts with enhanced accessibility for reactants. <i>Catalysis Today</i> , 2012 , 193, 200-206	5.3	22
70	Catalytic membranes with palladium nanoparticles: From tailored polymer to catalytic applications. <i>Catalysis Today</i> , 2012 , 193, 158-164	5.3	35
69	Characterization of fibrous polymer silver/cobalt nanocomposite with enhanced bactericide activity. <i>Langmuir</i> , 2012 , 28, 783-90	4	33
68	Intermatrix synthesis of monometallic and magnetic metal/metal oxide nanoparticles with bactericidal activity on anionic exchange polymers. <i>RSC Advances</i> , 2012 , 2, 4596	3.7	9
67	Nanocomposite Membranes with Pd and Ag Nanoparticles. A New Material for Catalytic Membranes Development. <i>Procedia Engineering</i> , 2012 , 44, 1264-1267		2
66	Bifunctional Polymer-Metal Nanocomposite Ion Exchange Materials 2012 ,		7
65	Ecologically Friendly Polymer-Metal and Polymer-Metal Oxide Nanocomposites for Complex Water Treatment 2012 ,		4
64	Ion Exchange-Assisted Synthesis of Polymer Stabilized Metal Nanoparticles. <i>Ion Exchange and Solvent Extraction</i> , 2011 , 1-44		7
63	Intermatrix synthesis: easy technique permitting preparation of polymer-stabilized nanoparticles with desired composition and structure. <i>Nanoscale Research Letters</i> , 2011 , 6, 343	5	21
62	Polymer-stabilized palladium nanoparticles for catalytic membranes: ad hoc polymer fabrication. <i>Nanoscale Research Letters</i> , 2011 , 6, 406	5	35
61	Environmentally-safe bimetallic Ag@Co magnetic nanocomposites with antimicrobial activity. <i>Chemical Communications</i> , 2011 , 47, 10464-6	5.8	33
60	Hydrogen generation by aluminum corrosion in aqueous alkaline solutions of inorganic promoters: The AlHidrox process. <i>Energy</i> , 2011 , 36, 2493-2501	7.9	73
59	Intermatrix synthesis of polymer-stabilized PGM@Cu core-shell nanoparticles with enhanced electrocatalytic properties. <i>Reactive and Functional Polymers</i> , 2011 , 71, 916-924	4.6	7
58	The first isoform-selective protein biosensor: a metallothionein potentiometric electrode. <i>Chemical Communications</i> , 2010 , 46, 2040-2	5.8	8
57	Intermatrix Synthesis of Polymer-Copper Nanocomposites with Tunable Parameters by Using Copper Comproportionation Reaction. <i>Chemistry of Materials</i> , 2010 , 22, 6616-6623	9.6	24
56	Intermatrix synthesis of polymer stabilized inorganic nanocatalyst with maximum accessibility for reactants. <i>Dalton Transactions</i> , 2010 , 39, 1751-7	4.3	29
55	Donnan-exclusion-driven distribution of catalytic ferromagnetic nanoparticles synthesized in polymeric fibers. <i>Dalton Transactions</i> , 2010 , 39, 2579-86	4.3	26
54	Preparation, characterization and evaluation of proton-conducting hybrid membranes based on sulfonated hydrogenated styrene-butadiene and polysiloxanes for fuel cell applications. <i>Journal of Power Sources</i> , 2010 , 195, 8052-8060	8.9	6

53	Hydrogen generation from water and aluminum promoted by sodium stannate. <i>International Journal of Hydrogen Energy</i> , 2010 , 35, 1038-1048	6.7	98
52	Development of polymeric hollow fiber membranes containing catalytic metal nanoparticles. <i>Catalysis Today</i> , 2010 , 156, 181-186	5.3	73
51	Hydrogen generation by aluminum corrosion in seawater promoted by suspensions of aluminum hydroxide. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 8511-8518	6.7	99
50	Novel semi-interpenetrating polymer network hybrid membranes for proton conduction. <i>Journal of Membrane Science</i> , 2009 , 344, 92-100	9.6	15
49	In situ generation of hydrogen from water by aluminum corrosion in solutions of sodium aluminate. <i>Journal of Power Sources</i> , 2009 , 192, 21-26	8.9	121
48	A comparative study of the selective transport of Zn/Cd and Pt/Pd couples with activated composite membranes and hybrid membranes. <i>Desalination</i> , 2009 , 240, 316-325	10.3	4
47	Novel potentiometric sensors based on polysulfone immobilized metallothioneins as metal-ionophores. <i>Talanta</i> , 2009 , 77, 1528-33	6.2	23
46	Novel strategies for preparation and characterization of functional polymer-metal nanocomposites for electrochemical applications. <i>Pure and Applied Chemistry</i> , 2008 , 80, 2425-2437	2.1	21
45	Synthesis, stability and electrocatalytic activity of polymer-stabilized monometallic Pt and bimetallic Pt/Cu core-shell nanoparticles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 1460-1464	1.6	22
44	Comparative study of hybrid and activated composite membranes containing Aliquat 336 for the transport of Pt(IV). <i>Journal of Membrane Science</i> , 2008 , 311, 235-242	9.6	28
43	Synergistic hydrogen generation from aluminum, aluminum alloys and sodium borohydride in aqueous solutions. <i>International Journal of Hydrogen Energy</i> , 2007 , 32, 4702-4710	6.7	103
42	Development and characterization of hybrid membranes based on an organic matrix modified with silanes for metal separation. <i>Journal of Membrane Science</i> , 2007 , 289, 150-158	9.6	40
41	Cation-exchange membrane as nanoreactor: Intermatrix synthesis of platinum-copper core-shell nanoparticles. <i>Reactive and Functional Polymers</i> , 2007 , 67, 1612-1621	4.6	32
40	Simple route for intermatrix synthesis of polymer stabilized core-shell metal nanoparticles for sensor applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 1686-1692	1.6	17
39	Preparation and characterisation of metal-polymer nanocomposite membranes for electrochemical applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 1699-1705	1.6	12
38	Sulfonated poly(ether ether ketone), an ion conducting polymer, as alternative polymeric membrane for the construction of anion-selective electrodes. <i>Sensors and Actuators B: Chemical</i> , 2007 , 125, 100-105	8.5	6
37	Aluminum and aluminum alloys as sources of hydrogen for fuel cell applications. <i>Journal of Power Sources</i> , 2007 , 169, 144-149	8.9	207
36	Evaluation of different mediator-modified screen-printed electrodes used in a flow system as amperometric sensors for NADH. <i>Talanta</i> , 2007 , 71, 2102-7	6.2	26

35	Novel routes for inter-matrix synthesis and characterization of polymer stabilized metal nanoparticles for molecular recognition devices. <i>Sensors and Actuators B: Chemical</i> , 2006 , 118, 408-417	8.5	60
34	Separation of Zinc and Bismuth by Facilitated Transport through Activated Composite Membranes. <i>Solvent Extraction and Ion Exchange</i> , 2006 , 24, 565-587	2.5	8
33	Preparation and characterization of polymer-stabilized metal nanoparticles for sensor applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006 , 203, 1194-1200	1.6	36
32	Selective transport of platinum(IV) and palladium(II) through hybrid and activated composite membranes containing Aliquat 336. <i>Desalination</i> , 2006 , 200, 100-102	10.3	8
31	Sulfonated poly(ether ether ketone) as an alternative charged material to poly(vinyl chloride) in the design of ion-selective electrodes. <i>Analytica Chimica Acta</i> , 2006 , 577, 85-90	6.6	9
30	Zn(II), Cd(II) and Cu(II) separation through organic/inorganic Hybrid Membranes containing di-(2-ethylhexyl) phosphoric acid or di-(2-ethylhexyl) dithiophosphoric acid as a carrier. <i>Journal of Membrane Science</i> , 2006 , 268, 57-64	9.6	27
29	Electrocatalytic production of hydrogen boosted by organic pollutants and visible light. <i>International Journal of Hydrogen Energy</i> , 2006 , 31, 129-139	6.7	21
28	Polysulfone as an alternative material to PVC in the design of ion-selective electrodes. <i>Sensors and Actuators B: Chemical</i> , 2006 , 115, 691-696	8.5	14
27	Atomic force microscopy as a suitable technique for surface characterization of activated composite membranes for metal ion facilitated transport. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 84, 277-284	2.6	16
26	Active Composite Polymeric Membranes for the Separation of Nd(III). <i>Separation Science and Technology</i> , 2005 , 39, 1279-1293	2.5	3
25	Mass transfer determining parameter in facilitated transport through di-(2-ethylhexyl) dithiophosphoric acid activated composite membranes. <i>Analytica Chimica Acta</i> , 2005 , 534, 101-108	6.6	15
24	Arsenic(V) removal with polymer inclusion membranes from sulfuric acid media using DBBP as carrier. <i>Environmental Science & Technology</i> , 2004 , 38, 886-91	10.3	53
23	Activated composite membranes applied in heavy metal separation. <i>European Physical Journal D</i> , 2003 , 53, A563-A569		1
22	Arsenic(V) Extraction from Sulfuric Acid Media Using DBBP/D2EHPA Organic Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 574-581	3.9	11
21	Surface chemical and electrokinetic characterizations of membranes containing different carriers by x-ray photoelectron spectroscopy and streaming potential measurements: study of the effect of pH. <i>Surface and Interface Analysis</i> , 2002 , 34, 637-641	1.5	7
20	Separation of rare earth elements by high performance liquid chromatography using a covalent modified silica gel column. <i>Analytica Chimica Acta</i> , 2001 , 439, 247-253	6.6	33
19	Surface characterization of di-(2-ethylhexyl)dithiophosphoric acid-activated composite membranes by x-ray photoelectron spectroscopy. <i>Surface and Interface Analysis</i> , 2000 , 30, 430-433	1.5	12
18	X-Ray Photoelectron Spectroscopy Analysis of Di-(2-ethylhexyl) Phosphoric Acid Activated Membranes. <i>Journal of Colloid and Interface Science</i> , 2000 , 226, 151-158	9.3	39

17	Determination of structural and electrical parameters for activated composite membranes containing di-(2-ethylhexyl)dithiophosphoric acid as carrier. <i>Analytica Chimica Acta</i> , 2000 , 403, 91-99	6.6	13
16	Facilitated transport of lead(II) and cadmium(II) through novel activated composite membranes containing di-(2-ethyl-hexyl)phosphoric acid as carrier. <i>Analytica Chimica Acta</i> , 2000 , 408, 65-74	6.6	49
15	Evaluation of Structural Properties of Novel Activated Composite Membranes Containing Organophosphorus Extractants as Carriers. <i>Langmuir</i> , 2000 , 16, 716-721	4	18
14	Selective transport of zinc through activated composite membranes containing di(2-ethylhexyl)dithiophosphoric acid as a carrier. <i>Polyhedron</i> , 1999 , 18, 3353-3359	2.7	26
13	Selective separation of lanthanides by supported liquid membranes containing Cyanex 925 as a carrier. <i>Analytica Chimica Acta</i> , 1999 , 387, 77-84	6.6	19
12	Thermodynamic characterization of the liquid-liquid extraction of silver by acyclic dithia benzene derivatives. <i>Analytica Chimica Acta</i> , 1998 , 375, 127-133	6.6	3
11	Characterization of novel activated composite membranes by impedance spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 1998 , 451, 173-180	4.1	35
10	Selective membrane transport of dicarboxylic acids in their neutral form by a synthetic receptor containing amidopyridine groups. <i>Analytica Chimica Acta</i> , 1997 , 343, 287-294	6.6	1
9	Transport of vanadium(V) through a tricaprylmethylammonium solid supported liquid membrane from aqueous acetic acid/acetate solutions. <i>Journal of Membrane Science</i> , 1995 , 98, 241-248	9.6	17
8	Performance of the New Single-Bore High-Pressure Pneumatic Nebulizer (SBHPPN) in Plasma Atomic Emission Spectrometry. <i>Applied Spectroscopy</i> , 1994 , 48, 573-580	3.1	7
7	Vitamin B12 derivatives as anion carriers in transport through supported liquid membranes and correlation with their behavior in ion-selective electrodes. <i>Analytical Chemistry</i> , 1993 , 65, 1533-1536	7.8	30
6	Separation of Titanium and Iron in Brines by Solid Supported Liquid Membrane Using Tributylphosphate, TBP, As Carrier. <i>Analytical Letters</i> , 1991 , 24, 1923-1934	2.2	2
5	Extraction of palladium with tri-isobutylphosphine sulphide (cyanex 471) in toluene from chloride solutions containing thiocyanate. <i>Talanta</i> , 1991 , 38, 483-8	6.2	31
4	An Immobilized Liquid Membrane Containing Tri-Isobutyl Phosphine Sulfide for the Selective Separation of Silver from Base Metals. <i>Analytical Letters</i> , 1990 , 23, 1591-1606	2.2	11
3	Automated spectrophotometric determination of titanium(IV) in water and brines by flow injection based on its reaction with hydrogen peroxide. <i>Analyst, The</i> , 1990 , 115, 315-318	5	19
2	EXTRACTION OF GOLD (III) FROM HYDROCHLORIC ACID SOLUTIONS BY TRI-ISOBUTYL PHOSPHINE SULFIDE IN TOLUENE.. <i>Solvent Extraction and Ion Exchange</i> , 1990 , 8, 491-502	2.5	31
1	Studies of metal carbonate equilibria. Part 16. The beryllium(II)-water-carbon dioxide(g) system in neutral-to-alkaline 3.0 mol dm ⁻³ perchlorate media at 25 °C. <i>Journal of the Chemical Society Dalton Transactions</i> , 1987 , 2445-2449		8