Manuel Valiente

List of Publications by Year
in descending order

100 papers	2,337 citations	201674 27 h-index	254184 43 g-index
102 all docs	102 docs citations	102 times ranked	2694 citing authors

#	Article	IF	Citations
1	Arsenic Adsorption by Fe(III)-Loaded Open-Celled Cellulose Sponge. Thermodynamic and Selectivity Aspects. Environmental Science & Technology, 2002, 36, 3405-3411.	10.0	122
2	Rapid decolourization and mineralization of the azo dye C.I. Acid Red 14 by heterogeneous Fenton reaction. Journal of Hazardous Materials, 2011, 186, 745-750.	12.4	111
3	Microprobe Techniques for Speciation Analysis and Geochemical Characterization of Mine Environments:â€‰ The Mercury District of AlmadÃ©n in Spain. Environmental Science & Technology, 2006, 40, 4090-4095.	10.0	108
4	Polyphenols content and antioxidant capacity of thirteen faba bean (Vicia faba L.) genotypes cultivated in Tunisia. Food Research International, 2011, 44, 970-977.	6.2	90
5	Tooth whitening: From the established treatments to novel approaches to prevent side effects. Journal of Esthetic and Restorative Dentistry, 2019, 31, 431-440.	3.8	86
6	Determination of mercury in polluted soils surrounding a chlor-alkali plant. Analytica Chimica Acta, 2006, 565, 73-80.	5.4	75
7	Assessment of Heavy Metals Remobilization by Fractionation: Comparison of Leaching Tests Applied to Roadside Sediments. Environmental Science & Technology, 2008, 42, 2309-2315.	10.0	71
8	Ion Exchange on Resins with Temperature-Responsive Selectivity. 1. Ion-Exchange Equilibrium of Cu2+ and Zn2+ on Iminodiacetic and Aminomethylphosphonic Resins. Analytical Chemistry, 1995, 67, 3028-3035.	6.5	62
9	Development and validation of a simple determination of urine metabolites (oxalate, citrate, uric acid) Tj ETQq1 1 0.784314 rgBT /Ove	5.5	62
10	Adsorption of arsenic onto films based on chitosan and chitosan/nano-iron oxide. International Journal of Biological Macromolecules, 2020, 165, 1286-1295.	7.5	62
11	Arsenic(V) adsorption by immobilized iron mediation. Modeling of the adsorption process and influence of interfering anions. Reactive and Functional Polymers, 2003, 54, 85-94.	4.1	55
12	Facilitated transport of lead(II) and cadmium(II) through novel activated composite membranes containing di-(2-ethyl-hexyl)phosphoric acid as carrier. Analytica Chimica Acta, 2000, 408, 65-74.	5.4	53
13	Separation and concentration of calcium and magnesium from sea water by carboxylic resins with temperature-induced selectivity. Reactive and Functional Polymers, 1996, 28, 111-126.	4.1	52
14	XANES speciation of mercury in three mining districts â€“ AlmadÃ©n, Asturias (Spain), Idria (Slovenia). Journal of Synchrotron Radiation, 2010, 17, 179-186.	2.4	49
15	Selective electrodes for silver and anions based on polymeric membranes containing complexes of triisobutylphosphine sulfide with silver. Analytical Chemistry, 1991, 63, 1585-1589.	6.5	45
16	Micellar-Enhanced Highly Sensitive Reaction of Rare Earths with Xylenol Orange and Surfactants. Study of Reaction Conditions and Optimization of Spectrophotometric Method. Analytical Sciences, 1991, 7, 925-929.	1.6	42
17	Characterization of novel activated composite membranes by impedance spectroscopy. Journal of Electroanalytical Chemistry, 1998, 451, 173-180.	3.8	39
18	Monitoring Pb2+ with optical sensing films. Analytica Chimica Acta, 1999, 388, 327-338.	5.4	39

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19	Anion-selective electrodes based on a gold(III)-triisobutylphosphine sulfide complex. Analyst, The, 1994, 119, 2421.	3.5	38
20	Determination of Phytic Acid in Urine by Inductively Coupled Plasma Mass Spectrometry. Analytical Chemistry, 2003, 75, 6374-6378.	6.5	36
21	Interaction of d10 metal ions with thioether ligands: a thermodynamic and theoretical study. Dalton Transactions, 2013, 42, 6074.	3.3	36
22	Vitamin B12 derivatives as anion carriers in transport through supported liquid membranes and correlation with their behavior in ion-selective electrodes. Analytical Chemistry, 1993, 65, 1533-1536.	6.5	33
23	Efficient fluoride adsorption by mesoporous hierarchical alumina microspheres. RSC Advances, 2016, 6, 42288-42296.	3.6	33
24	Hyperspectral imaging based method for fast characterization of kidney stone types. Journal of Biomedical Optics, 2012, 17, 0760271.	2.6	30
25	Permeation of neodymium and praseodymium through supported liquid membranes containing di-(2-ethylhexyl) phosphoric acid as a carrier. Journal of Membrane Science, 1993, 81, 121-126.	8.2	29
26	Stability study on a WestÃ¶Ã¶-based methodology to determine organomercury compounds in polluted soil samples. Analytica Chimica Acta, 2003, 480, 219-230.	5.4	29
27	Selective transport of zinc through activated composite membranes containing di(2-ethylhexyl)dithiophosphoric acid as a carrier. Polyhedron, 1999, 18, 3353-3359.	2.2	28
28	Iodide-selective electrodes based on a mercury-triisobutylphosphine sulfide complex. Electroanalysis, 1993, 5, 839-843.	2.9	27
29	Studies on the mechanism of transport of lanthanide ions through supported liquid membranes containing di-(2-ethylhexyl) phosphoric acid (D2EHPA) as a carrier. Journal of Membrane Science, 1999, 155, 155-162.	8.2	27
30	Facilitated transport and separation of aromatic amino acids through activated composite membranes. Analytica Chimica Acta, 2001, 431, 59-67.	5.4	26
31	Heavy metal availability assessment using portable X-ray fluorescence and single extraction procedures on former vineyard polluted soils. Science of the Total Environment, 2020, 726, 138670.	8.0	25
32	myStone: A system for automatic kidney stone classification. Expert Systems With Applications, 2017, 89, 41-51.	7.6	23
33	Evaluation of Structural Properties of Novel Activated Composite Membranes Containing Organophosphorus Extractants as Carriers. Langmuir, 2000, 16, 716-721.	3.5	22
34	Characterisation of AlmadÃ©n mercury mine environment by XAS techniques. Journal of Environmental Monitoring, 2005, 7, 771.	2.1	22
35	Simultaneous determination of BTEX and their metabolites using solid-phase microextraction followed by HPLC or GC/MS: An application in teeth as environmental biomarkers. Science of the Total Environment, 2017, 603-604, 109-117.	8.0	21
36	Transport of vanadium(V) through a tricaprylylmethylammonium solid supported liquid membrane from aqueous acetic acid/acetate solutions. Journal of Membrane Science, 1995, 98, 241-248.	8.2	20

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37	Solvent impregnated hollow fibre for a selective preconcentration of Pb(II) in an on-line determination by flame atomic absorption spectrometry. Analytica Chimica Acta, 1998, 370, 141-149.	5.4	19
38	Ion exchange on resins with temperature-responsive selectivity. Journal of Chromatography A, 2000, 868, 143-152.	3.7	19
39	Seawater as Auxiliary Reagent in Dual-Temperature Ion-Exchange Processing of Acidic Mine Waters. Environmental Science & Technology, 1997, 31, 379-383.	10.0	18
40	Application of the reagentless dual-temperature ion-exchange technique to a selective separation and concentration of copper versus aluminum from acidic mine waters. Hydrometallurgy, 1997, 44, 331-346.	4.3	18
41	Lead-Selective Electrode Based on a Quinaldic Acid Derivative. Electroanalysis, 2001, 13, 54-60.	2.9	17
42	Analysis of sorption and bioavailability of different species of mercury on model soil components using XAS techniques and sensor bacteria. Analytical and Bioanalytical Chemistry, 2005, 382, 1541-1548.	3.7	17
43	Minimum handling method for the analysis of phosphorous inhibitors of urolithiasis (pyrophosphate) Tj ETQq1 1 0.784314 rgBT /Over	5.4	16
44	Can Temperature Be Used To Tune the Selectivity of Membrane Ion-Selective Electrodes?. Analytical Chemistry, 2010, 82, 3622-3628.	6.5	16
45	Ion exchange on resins with temperature-responsive selectivity. Journal of Chromatography A, 1998, 802, 251-261.	3.7	15
46	Application of a new focused microwave technology with species-specific isotope dilution analysis for the quantitative extraction of organometallic contaminants in solid environmental matrices. International Journal of Environmental Analytical Chemistry, 2008, 88, 923-932.	3.3	15
47	87Sr/86Sr isotope ratio and multielemental signatures as indicators of origin of European cured hams: The role of salt. Food Chemistry, 2018, 246, 313-322.	8.2	15
48	Aqua-Impregnated Resins. 1. Mass Transfer Active Interfaces in Bi- and Triphase Systems Involving Solid Polymer and Two Immiscible Liquid Phases. Langmuir, 1997, 13, 4915-4922.	3.5	14
49	Selective separation and concentration of vanadium(V) by a chemical pumping hollow-fiber supported liquid membrane. Analytica Chimica Acta, 1997, 349, 171-178.	5.4	14
50	Determination of structural and electrical parameters for activated composite membranes containing di-(2-ethylhexyl)dithiophosphoric acid as carrier. Analytica Chimica Acta, 2000, 403, 91-99.	5.4	14
51	Evaluation of a Cuâ€“Ni laminated sampler cone for ICP-MS: comparison of figures of merit with a conventional system. Journal of Analytical Atomic Spectrometry, 2004, 19, 282-285.	3.0	14
52	Characterization of Calcium Oxalate Hydrates and the Transformation Process. ChemPhysChem, 2020, 21, 2583-2593.	2.1	14
53	Influence of a plant biostimulant on the uptake, distribution and speciation of Se in Se-enriched wheat (Triticum aestivum L. cv. PinzÃ³n). Plant and Soil, 2020, 455, 409-423.	3.7	14
54	Solvent effect on heavy metal coordination with thioether ligands: A thermodynamic and theoretical study. Polyhedron, 2014, 75, 88-94.	2.2	13

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55	Fast determination of bioactive phytic acid and pyrophosphate in walnuts using microwave accelerated extraction. Food Chemistry, 2017, 221, 771-775.	8.2	13
56	Kinetic and Dynamic Aspects of Arsenic Adsorption byÂFe(III)-Loaded Sponge. Journal of Solution Chemistry, 2008, 37, 553-565.	1.2	12
57	Comparison of interface cones for analysis of sodium-rich samples using quadrupole ICP-MS. Journal of Analytical Atomic Spectrometry, 2009, 24, 1558.	3.0	12
58	High precision mapping of kidney stones using Î¼-IR spectroscopy to determine urinary lithogenesis. Journal of Biophotonics, 2015, 8, 457-465.	2.3	12
59	Thermodynamics of Hg2+ and Ag+ adsorption by 3-mercaptopropionic acid-functionalized superparamagnetic iron oxide nanoparticles. Journal of Thermal Analysis and Calorimetry, 2019, 136, 1153-1162.	3.6	12
60	Detection of rare earth elements by post-column reaction with xylenol orange and cetylpyridinium bromide. Journal of High Resolution Chromatography, 1992, 15, 423-427.	1.4	11
61	DUAL-TEMPERATURE ION EXCHANGE FRACTIONATION. Solvent Extraction and Ion Exchange, 1999, 17, 767-849.	2.0	11
62	Characterization of a Supported Liquid Membrane Based System for the Enantioseparation ofSRâ€Propranolol byNâ€Hexadecylâ€Lâ€hydroxyproline. Separation Science and Technology, 2005, 39, 431-447.	2.5	10
63	Relevance of Toxicity Assessment in Wastewater Treatments: Case Studyâ€"Four Fenton Processes Applied to the Mineralization of C.I. Acid Red 14. Journal of Analytical Methods in Chemistry, 2015, 2015, 1-7.	1.6	10
64	A general covalent binding model between cytotoxic selenocompounds and albumin revealed by mass spectrometry and X-ray absorption spectroscopy. Scientific Reports, 2020, 10, 1274.	3.3	10
65	The Dark Side of Platinum Based Cytostatic Drugs: From Detection to Removal. Processes, 2021, 9, 1873.	2.8	10
66	Enhanced arsenite removal by superparamagnetic iron oxide nanoparticles in-situ synthesized on a commercial cube-shape sponge: adsorption-oxidation mechanism. Journal of Colloid and Interface Science, 2022, 614, 460-467.	9.4	10
67	Decoupling the adsorption mechanisms of arsenate at molecular level on modified cube-shaped sponge loaded superparamagnetic iron oxide nanoparticles. Journal of Environmental Sciences, 2022, 121, 1-12.	6.1	10
68	Tooth whitening, oxidation or reduction? Study of physicochemical alterations in bovine enamel using Synchrotron based Micro-FTIR. Dental Materials, 2022, 38, 670-679.	3.5	10
69	Immobilized soft-metal affinity system for amino acids based on an 8-hydroxyquinoline-Pd(II) complex; characterization using glycine as a model. Analytica Chimica Acta, 1995, 315, 339-345.	5.4	9
70	Aqua-Impregnated Resins. 2. Separation of Polyvalent Metal Ions on Iminodiacetic and Polyacrylic Resins Using Bis(2-ethylhexyl) Phosphoric and Bis(2-ethylhexyl) Dithiophosphoric Acids as Organic Eluents. Analytical Chemistry, 1999, 71, 4866-4873.	6.5	9
71	Metal affinity liquid membrane. Analytica Chimica Acta, 2000, 417, 159-167.	5.4	9
72	Metal affinity liquid membrane. Analytica Chimica Acta, 2000, 403, 101-115.	5.4	9

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73	Co-application of Se and a biostimulant at different wheat growth stages: Influence on grain development. Plant Physiology and Biochemistry, 2021, 160, 184-192.	5.8	9
74	Metal affinity liquid membrane, Part III: Characterization of transport selectivity. Journal of Separation Science, 2001, 24, 533-543.	2.5	8
75	Hollow fibre supported liquid membrane extraction for BTEX metabolites analysis in human teeth as biomarkers. Science of the Total Environment, 2018, 630, 323-330.	8.0	8
76	Tandem Ion-Exchange Fractionation:â€‰ New Preparative Mode for Separation of Multicomponent Ionic Mixtures. Analytical Chemistry, 1997, 69, 4234-4241.	6.5	7
77	Ion exchange on resins with temperature-responsive selectivity. Journal of Chromatography A, 2000, 867, 57-69.	3.7	7
78	Hollow fibre liquid phase microâ€extraction by facilitated anionic exchange for the determination of flavonoids in faba beans (Vicia faba L.). Phytochemical Analysis, 2015, 26, 346-352.	2.4	7
79	Flash tooth whitening: A friendly formulation based on a nanoencapsulated reductant. Colloids and Surfaces B: Biointerfaces, 2020, 195, 111241.	5.0	7
80	Clean Ion-Exchange Technologies. 3. Temperature-Enhanced Conversion of Potassium Chloride and Lime Milk into Potassium Hydroxide on a Carboxylic Ion Exchanger. Industrial & Engineering Chemistry Research, 1999, 38, 4409-4416.	3.7	6
81	Inhibitors of Oxalocalcic Lithiasis: Effects of Their Interactions on Calcium Oxalate Crystallization. Urology, 2012, 80, 1163.e13-1163.e18.	1.0	6
82	Determination of Oxalate Content in Herbal Remedies and Dietary Supplements Based on Plant Extracts. Journal of Medicinal Food, 2016, 19, 205-210.	1.5	6
83	Thermodynamics of sorption of platinum on superparamagnetic nanoparticles functionalized with mercapto groups. Journal of Thermal Analysis and Calorimetry, 2018, 134, 1261-1266.	3.6	6
84	Selective up-hill transport of gold to iodide stripping solution through a solvent modified liquid membrane containing a polysulphide podand as carrier. Analytica Chimica Acta, 1996, 327, 175-181.	5.4	5
85	Characterization of a solid supported liquid membrane for lanthanide transport by impedance spectroscopy. Journal of Electroanalytical Chemistry, 1997, 422, 191-195.	3.8	5
86	Taking advantage of hyperspectral imaging classification of urinary stones against conventional infrared spectroscopy. Journal of Biomedical Optics, 2014, 19, 126004.	2.6	5
87	Extracellular Albumin Covalently Sequesters Selenocompounds and Determines Cytotoxicity. International Journal of Molecular Sciences, 2019, 20, 4734.	4.1	5
88	Combination of Two Synchrotron Radiation-Based Techniques and Chemometrics to Study an Enhanced Natural Remineralization of Enamel. Analytical Chemistry, 2022, 94, 5359-5366.	6.5	5
89	On extraction with long-chain amines-XXX The extraction of hydrochloric acid by tri-n-hexylamine dissolved in n-octane. Journal of Inorganic and Nuclear Chemistry, 1980, 42, 405-410.	0.5	4
90	KINETICS OF RELEASE OF CALCIUM AND FLUORIDE IONS FROM ION-EXCHANGE RESINS IN ARTIFICIAL SALIVA. Solvent Extraction and Ion Exchange, 2000, 18, 345-374.	2.0	4

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91	Selective membrane transport of dicarboxylic acids in their neutral form by a synthetic receptor containing amidopyridine groups. Analytica Chimica Acta, 1997, 343, 287-294.	5.4	3
92	Thermodynamic characterization of the liquidâ€“liquid extraction of silver by acyclic dithia benzene derivatives. Analytica Chimica Acta, 1998, 375, 127-133.	5.4	3
93	Active Composite Polymeric Membranes for the Separation of Nd(III). Separation Science and Technology, 2005, 39, 1279-1293.	2.5	3
94	Dual-Temperature Ion Exchange Fractionation. , 1999, , .		3
95	Synergistic Effect of Tartaric Acid in the Extraction of Iron(III) from Aqueous Nitrate by Di(2-ethyl) Tj ETQq1 1 0.784314 rgBT /Overloc	1.6	2
96	Calcium oxalate kidney stones, where is the organic matter?: A synchrotron based infrared microspectroscopy study. Journal of Biophotonics, 2020, 13, e202000303.	2.3	2
97	The power of weak ion-exchange resins assisted by amelogenin for natural remineralization of dental enamel: an in vitro study. Odontology / the Society of the Nippon Dental University, 2022, 110, 545-556.	1.9	2
98	EXTRACTION KINETICS OF COPPER BY TRILAURYLAMMONIUM CHLORIDE IN TOLUENE FROM AQUEOUS CHLORIDE MEDIA. Solvent Extraction and Ion Exchange, 1984, 2, 871-885.	2.0	1
99	Calcium and fluoride release from ion exchange polyphasic systems. Journal of Chemical Technology and Biotechnology, 2003, 78, 1209-1218.	3.2	1
100	Discriminating the origin of calcium oxalate monohydrate formation in kidney stones via synchrotron microdiffraction. Analyst, The, 2022, 147, 349-357.	3.5	0