

Mario Berrettoni

List of Publications by Year in descending order

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75
papers

2,701
citations

159585

30
h-index

182427

51
g-index

76
all docs

76
docs citations

76
times ranked

3015
citing authors

#	ARTICLE	IF	CITATIONS
1	Advanced alkaline water electrolysis. <i>Electrochimica Acta</i> , 2012, 82, 384-391.	5.2	430
2	Electrochemical Charging, Countercation Accommodation, and Spectrochemical Identity of Microcrystalline Solid Cobalt Hexacyanoferrate. <i>Journal of Physical Chemistry B</i> , 1998, 102, 1870-1876.	2.6	147
3	PEO-LiN(SO ₂ CF ₂ CF ₃) ₂ Polymer Electrolytes: I. XRD, DSC, and Ionic Conductivity Characterization. <i>Journal of the Electrochemical Society</i> , 2001, 148, A1171.	2.9	115
4	Electrolyte-cation-dependent coloring, electrochromism and thermochromism of cobalt(II) hexacyanoferrate(III, II) films. <i>Journal of Electroanalytical Chemistry</i> , 1995, 397, 287-292.	3.8	102
5	Doped V ₂ O ₅ -Based Cathode Materials: Where Does the Doping Metal Go? An X-ray Absorption Spectroscopy Study. <i>Chemistry of Materials</i> , 2007, 19, 5991-6000.	6.7	91
6	Electrochemical preparation and characterization of electrodes modified with mixed hexacyanoferrates of nickel and palladium. <i>Journal of Electroanalytical Chemistry</i> , 2000, 487, 57-65.	3.8	83
7	Influence of experimental conditions on electrochemical behavior of Prussian blue type nickel hexacyanoferrate film. <i>Electrochimica Acta</i> , 2003, 48, 4261-4269.	5.2	81
8	Evidence of Bilayer Structure in V ₂ O ₅ Xerogel. <i>Inorganic Chemistry</i> , 2000, 39, 1514-1517.	4.0	75
9	Electrochemical characterisation of Ni/Al ₂ X hydrotalcites and their electrocatalytic behaviour. <i>Electrochimica Acta</i> , 2002, 47, 2451-2461.	5.2	73
10	Microstructural defects in nanocrystalline iron probed by x-ray-absorption spectroscopy. <i>Physical Review B</i> , 1994, 50, 12386-12397.	3.2	70
11	Multivariate Curve Resolution Analysis for Interpretation of Dynamic Cu K-Edge X-ray Absorption Spectroscopy Spectra for a Cu Doped V ₂ O ₅ Lithium Battery. <i>Analytical Chemistry</i> , 2010, 82, 3629-3635.	6.5	70
12	Evidence of four-body contributions in the EXAFS spectrum of Na ₂ Co[Fe(CN) ₆]. <i>Chemical Physics Letters</i> , 1997, 275, 108-112.	2.6	68
13	Sulfate-selective electrodes based on hydrotalcites. <i>Analytica Chimica Acta</i> , 2001, 439, 265-272.	5.4	62
14	Spectroelectrochemical characterization of cobalt hexacyanoferrate films in potassium salt electrolyte. <i>Electrochimica Acta</i> , 1998, 43, 919-923.	5.2	61
15	Study of amorphous and crystalline Li _{1+x} V ₃ O ₈ by FTIR, XAS and electrochemical techniques. <i>Solid State Ionics</i> , 1992, 57, 227-234.	2.7	57
16	Synthesis and Characterization of Nanostructured Cobalt Hexacyanoferrate. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6401-6407.	3.1	57
17	Characterization of Sol ⁺ Gel-Synthesized LiFePO ₄ by Multiple Scattering XAFS. <i>Inorganic Chemistry</i> , 2006, 45, 2750-2757.	4.0	53
18	Hybrid Metal Cyanometallates Electrochemical Charging and Spectrochemical Identity of Heteronuclear Nickel/Cobalt Hexacyanoferrate. <i>Journal of the Electrochemical Society</i> , 1999, 146, 3757-3761.	2.9	45

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19	Spectroelectrochemical identity of Prussian blue films in various electrolytes: comparison of time-derivative voltabsorptometric responses with conventional cyclic voltammetry. <i>Journal of Solid State Electrochemistry</i> , 1997, 1, 88-93.	2.5	44
20	Structure of Fe/Co/Ni Hexacyanoferrate As Probed by Multiple Edge X-ray Absorption Spectroscopy. <i>Inorganic Chemistry</i> , 2008, 47, 6001-6008.	4.0	42
21	Study on the intercalation of hexacyanoferrate(II) in a Ni, Al based hydrotalcite. <i>Solid State Ionics</i> , 2004, 168, 167-175.	2.7	41
22	Electrochemical characterisation of electrodes modified with a Co/Al hydrotalcite-like compound. <i>Electrochimica Acta</i> , 2005, 50, 3305-3311.	5.2	39
23	Electrochemical sensors based on electrodes modified with synthetic hydrotalcites. <i>Electrochimica Acta</i> , 2006, 51, 2129-2134.	5.2	38
24	Nickel hexacyanoferrate membrane as a coated wire cation-selective electrode. <i>Analyst, The</i> , 2001, 126, 2168-2171.	3.5	36
25	[Ni/Al-Cl]-based hydrotalcite electrodes as amperometric sensors: preparation and electrochemical study. <i>Electrochimica Acta</i> , 2001, 46, 2681-2692.	5.2	35
26	Intercalation of Iron(III) Hexacyano Complex in a Ni,Al Hydrotalcite-like Compound. <i>Journal of Physical Chemistry B</i> , 2006, 110, 7265-7269.	2.6	35
27	The effect of the 3-trifluoromethyl substituent in polypyrazolylborato complexes on the iron(II) spin state; X-ray diffraction and absorption and Mössbauer studies. <i>Inorganica Chimica Acta</i> , 2001, 318, 67-76.	2.4	33
28	Identification of an Unconventional Zinc Coordination Site in Anhydrous Zn _x V ₂ O ₅ Aerogels from X-ray Absorption Spectroscopy. <i>Chemistry of Materials</i> , 1999, 11, 2257-2264.	6.7	32
29	Preparation, spectroscopic characterization and electrochemical charging of the sodium-containing analogue of Prussian Blue. <i>Electrochimica Acta</i> , 1995, 40, 681-688.	5.2	30
30	AC impedance study of a synthetic hydrotalcite-like compound modified electrode in aqueous solution. <i>Electrochimica Acta</i> , 2003, 48, 1347-1355.	5.2	30
31	Absorption of polarized X-rays by V ₂ O ₅ -based cathodes for lithium batteries: an application. <i>Electrochimica Acta</i> , 2002, 47, 3163-3169.	5.2	23
32	Electroconductivity of amorphous carbon films containing silicon and tungsten. <i>Diamond and Related Materials</i> , 1995, 4, 488-491.	3.9	21
33	X-ray Absorption Spectroscopy Study of Cu _{0.25} V ₂ O ₅ and Zn _{0.25} V ₂ O ₅ Aerogel-Like Cathodes for Lithium Batteries. <i>Journal of Physical Chemistry B</i> , 2004, 108, 3765-3771.	2.6	21
34	Cobalt hexacyanoferrate in PAMAM doped silica matrix. 2. Structural and electronic characterization. <i>Electrochimica Acta</i> , 2005, 51, 511-516.	5.2	21
35	Physicochemical characterization of metal hexacyanometallate-TiO ₂ composite materials. <i>RSC Advances</i> , 2015, 5, 35435-35447.	3.6	21
36	Electrochemical, ZAS and FTIR study of lithium intercalation in Na _{1+x} V ₃ O ₈ . <i>Solid State Ionics</i> , 1993, 67, 77-83.	2.7	20

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37	Oxidation and flow-injection amperometric determination of 5-hydroxytryptophan at an electrode modified by electrochemically assisted deposition of a sol-gel film with templated nanoscale pores. <i>Talanta</i> , 2010, 82, 1149-1155.	5.5	20
38	A multivariate approach to the study of orichalcum ingots from the underwater Gela's archaeological site. <i>Microchemical Journal</i> , 2017, 135, 163-170.	4.5	20
39	Electrodes modified with an electrosynthesised Ni/Al hydrotalcite as amperometric sensors in flow systems. <i>Analytica Chimica Acta</i> , 2005, 538, 219-224.	5.4	19
40	A new approach for the synthesis of K ⁺ -free nickel hexacyanoferrate. <i>Journal of Solid State Chemistry</i> , 2006, 179, 3981-3988.	2.9	18
41	Cobalt hexacyanoferrate-poly(methyl methacrylate) composite: Synthesis and characterization. <i>Materials Chemistry and Physics</i> , 2010, 120, 118-122.	4.0	18
42	Copper hexacyanoferrate modified electrodes for hydrogen peroxide detection as studied by X-ray absorption spectroscopy. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 965-973.	2.5	18
43	Synthesis and antibacterial activity of iron-hexacyanocobaltate nanoparticles. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 385-398.	2.6	18
44	Electrochemical, spectroelectrochemical and X-ray absorption spectroscopic study of some iron(II) and iron(III) polypyrazolylborato complexes. <i>Polyhedron</i> , 1995, 14, 1929-1935.	2.2	17
45	Cobalt hexacyanoferrate in PAMAM-doped silica matrix. <i>Electrochimica Acta</i> , 2005, 51, 118-124.	5.2	17
46	How solar energy and electrochemical technologies may help developing countries and the environment. <i>Energy Conversion and Management</i> , 2014, 87, 1134-1140.	9.2	17
47	Electrochemical performance of manganese hexacyanoferrate cathode material in aqueous Zn-ion battery. <i>Electrochimica Acta</i> , 2021, 400, 139414.	5.2	17
48	Anatase-driven charge transfer involving a spin transition in cobalt iron cyanide nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 22519-22522.	2.8	16
49	Electrochemical sensor for indirect detection of bacterial population. <i>Sensors and Actuators B: Chemical</i> , 2004, 102, 331-335.	7.8	15
50	Coupling chemometrics and electrochemical-based sensor for detection of bacterial population. <i>Analytica Chimica Acta</i> , 2004, 509, 95-101.	5.4	14
51	X-ray absorption multiple-scattering study of angle distribution in high-T _c superconductors. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1993, 176, 375-381.	2.1	13
52	X-ray absorption spectroscopy study on the electrochemical reduction of Co((DO)(DOH)pn)Br ₂ . <i>Electrochimica Acta</i> , 2000, 45, 4475-4482.	5.2	11
53	Synthesis of yttrium aluminum garnet nanoparticles in confined environment II: Role of the thermal treatment on the composition and microstructural evolution. <i>Journal of Alloys and Compounds</i> , 2017, 719, 264-270.	5.5	11
54	Square-wave anodic stripping voltammetry with a mercury-plated reticulated vitreous carbon electrode. <i>Analytica Chimica Acta</i> , 1989, 219, 153-159.	5.4	10

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55	Influence of silanization on voltammetry at electrodes modified with silica films of controlled porosity formed by electrochemically initiated sol-gel processing. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 2409-2417.	2.5	10
56	Electrochemical synthesis of nano-cobalt hexacyanoferrate at a sol-gel-coated electrode templated with β -cyclodextrin. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 2861-2866.	2.5	10
57	Deposition and characterization of a CoHCF nanorod array in a templated ormosil film on an electrode and application to electrocatalysis. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1323-1329.	2.5	10
58	The coordination core and charge of chromium in Metakaolin-geopolymers as revealed by X-Ray absorption spectroscopy. <i>Materials Letters</i> , 2020, 270, 127741.	2.6	10
59	X-ray Absorption Spectroscopic Study of α -Costa Type Organocobalt Coenzyme B12 Models. <i>Organometallics</i> , 1996, 15, 3491-3495.	2.3	9
60	Electrochemical behavior of InHCF in alkali metal electrolytes. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 2445-2452.	2.5	9
61	Speciation of Gold Nanoparticles by Ex Situ Extended X-ray Absorption Fine Structure and X-ray Absorption Near Edge Structure. <i>Analytical Chemistry</i> , 2016, 88, 6873-6880.	6.5	9
62	Nickel site distribution and clustering in synthetic double-chain silicates by experimental and theoretical XANES spectroscopy. <i>Physical Review B</i> , 2000, 62, 5473-5477.	3.2	8
63	Electrochemistry of TiO ₂ -iron hexacyanocobaltate composite electrodes. <i>Solid State Ionics</i> , 2014, 259, 53-58.	2.7	8
64	Efficient chemical stabilization of tannery wastewater pollutants in a single step process: Geopolymerization. <i>Sustainable Environment Research</i> , 2021, 31, .	4.2	6
65	Voltammetric Determination of ITX in Hydro-Alcoholic Solutions and Wine. <i>Analytical Letters</i> , 2011, 44, 2335-2346.	1.8	4
66	Immobilization of nanobeads on a surface to control the size, shape, and distribution of pores in electrochemically generated sol-gel films. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 2087-2094.	2.5	4
67	Evidence for a double doping regime in Nd:YAG nanopowders. <i>Journal of Materials Science</i> , 2009, 44, 1572-1579.	3.7	3
68	Synthesis of yttrium aluminum garnet nanoparticles in confined environment, and their characterization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2016, 511, 82-90.	4.7	3
69	Electron transfer and spin transition in metal-hexacyanoferrates driven by anatase TiO ₂ : electronic and structural order effects. <i>New Journal of Chemistry</i> , 2016, 40, 10406-10411.	2.8	3
70	Stable films of zinc-hexacyanoferrate: electrochemistry and ion insertion capabilities. <i>Journal of Solid State Electrochemistry</i> , 2022, 26, 63-72.	2.5	2
71	Newly discovered orichalcum ingots from Mediterranean sea: Further investigation. <i>Journal of Archaeological Science: Reports</i> , 2021, 37, 102901.	0.5	1
72	Metal Hexacyanoferrate Absorbents for Heavy Metal Removal. <i>Environmental Chemistry for A Sustainable World</i> , 2021, , 171-194.	0.5	1

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73	Electrochemical Study of Mannitol Oxidation at Nickel Oxide Electrode. Collection of Czechoslovak Chemical Communications, 2003, 68, 1636-1646.	1.0	0
74	Electrochemical sensor for indirect detection of bacterial population. Sensors and Actuators B: Chemical, 2004, 102, 331-331.	7.8	0
75	Sustainable Chromium Encapsulation: Alkali Activation Route. Frontiers in Materials, 0, 9, .	2.4	0