

Gregorio Crini

List of Publications by Citations

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134
papers

13,644
citations

40
h-index

116
g-index

137
ext. papers

15,562
ext. citations

6.7
avg, IF

7.7
L-index

#	Paper	IF	Citations
134	Non-conventional low-cost adsorbents for dye removal: a review. <i>Bioresource Technology</i> , 2006 , 97, 1061-1085	11.85	3034
133	Application of chitosan, a natural aminopolysaccharide, for dye removal from aqueous solutions by adsorption processes using batch studies: A review of recent literature. <i>Progress in Polymer Science</i> , 2008 , 33, 399-447	29.6	1573
132	Recent developments in polysaccharide-based materials used as adsorbents in wastewater treatment. <i>Progress in Polymer Science</i> , 2005 , 30, 38-70	29.6	1561
131	Review: a history of cyclodextrins. <i>Chemical Reviews</i> , 2014 , 114, 10940-75	68.1	1023
130	Advantages and disadvantages of techniques used for wastewater treatment. <i>Environmental Chemistry Letters</i> , 2019 , 17, 145-155	13.3	745
129	Removal of C.I. Basic Green 4 (Malachite Green) from aqueous solutions by adsorption using cyclodextrin-based adsorbent: Kinetic and equilibrium studies. <i>Separation and Purification Technology</i> , 2007 , 53, 97-110	8.3	731
128	Conventional and non-conventional adsorbents for wastewater treatment. <i>Environmental Chemistry Letters</i> , 2019 , 17, 195-213	13.3	336
127	Kinetic and equilibrium studies on the removal of cationic dyes from aqueous solution by adsorption onto a cyclodextrin polymer. <i>Dyes and Pigments</i> , 2008 , 77, 415-426	4.6	317
126	Environmental applications of water-insoluble β -cyclodextrin-pichlorohydrin polymers. <i>Progress in Polymer Science</i> , 2013 , 38, 344-368	29.6	306
125	Adsorption isotherm models for dye removal by cationized starch-based material in a single component system: error analysis. <i>Journal of Hazardous Materials</i> , 2008 , 157, 34-46	12.8	304
124	Synthesis and applications of adsorbents containing cyclodextrins. <i>Journal of Separation Science</i> , 2002 , 25, 789-813	3.4	277
123	Studies on adsorption of dyes on beta-cyclodextrin polymer. <i>Bioresource Technology</i> , 2003 , 90, 193-8	11	218
122	Applications of chitosan in food, pharmaceuticals, medicine, cosmetics, agriculture, textiles, pulp and paper, biotechnology, and environmental chemistry. <i>Environmental Chemistry Letters</i> , 2019 , 17, 1667-1692	13.3	180
121	The removal of Basic Blue 3 from aqueous solutions by chitosan-based adsorbent: batch studies. <i>Journal of Hazardous Materials</i> , 2008 , 153, 96-106	12.8	156
120	Water-insoluble β -cyclodextrin-pichlorohydrin polymers for removal of pollutants from aqueous solutions by sorption processes using batch studies: A review of inclusion mechanisms. <i>Progress in Polymer Science</i> , 2018 , 78, 1-23	29.6	138
119	Cationized starch-based material as a new ion-exchanger adsorbent for the removal of C.I. Acid Blue 25 from aqueous solutions. <i>Bioresource Technology</i> , 2008 , 99, 7573-86	11	117
118	Cyclodextrins, from molecules to applications. <i>Environmental Chemistry Letters</i> , 2018 , 16, 1361-1375	13.3	112

117	Alkylphenol and alkylphenol polyethoxylates in water and wastewater: A review of options for their elimination. <i>Arabian Journal of Chemistry</i> , 2017 , 10, S3749-S3773	5.9	100
116	Chitosan flocculation of cardboard-mill secondary biological wastewater. <i>Chemical Engineering Journal</i> , 2009 , 155, 775-783	14.7	90
115	Polymer-enhanced ultrafiltration for heavy metal removal: Influence of chitosan and carboxymethyl cellulose on filtration performances. <i>Journal of Cleaner Production</i> , 2018 , 171, 927-933	10.3	89
114	Historical review on chitin and chitosan biopolymers. <i>Environmental Chemistry Letters</i> , 2019 , 17, 1623-1643	13.3	89
113	Solid state NMR spectroscopy study of molecular motion in cyclomaltoheptaose (beta-cyclodextrin) crosslinked with epichlorohydrin. <i>Carbohydrate Research</i> , 1998 , 308, 37-45	2.9	81
112	Applications of hemp in textiles, paper industry, insulation and building materials, horticulture, animal nutrition, food and beverages, nutraceuticals, cosmetics and hygiene, medicine, agrochemistry, energy production and environment: a review. <i>Environmental Chemistry Letters</i> , 2020 , 18, 1451-1476	13.3	78
111	Evaluation of the phytotoxicity of polycontaminated industrial effluents using the lettuce plant (<i>Lactuca sativa</i>) as a bioindicator. <i>Ecotoxicology and Environmental Safety</i> , 2011 , 74, 2057-64	7	77
110	Preparation, characterization and sorption properties of crosslinked starch-based exchangers. <i>Carbohydrate Polymers</i> , 2005 , 60, 67-75	10.3	74
109	Preparation and sorption properties of a cyclodextrin-linked chitosan derivative. <i>Journal of Polymer Science Part A</i> , 2001 , 39, 169-176	2.5	74
108	Removal of organic pollutants from aqueous solutions by adsorbents prepared from an agroalimentary by-product. <i>Bioresource Technology</i> , 2006 , 97, 2173-81	11	69
107	Metal removal from aqueous media by polymer-assisted ultrafiltration with chitosan. <i>Arabian Journal of Chemistry</i> , 2017 , 10, S3826-S3839	5.9	62
106	Mixture toxicity assessment of wood preservative pesticides in the freshwater amphipod <i>Gammarus pulex</i> (L.). <i>Ecotoxicology and Environmental Safety</i> , 2009 , 72, 441-9	7	62
105	Treated wastewater phytotoxicity assessment using <i>Lactuca sativa</i> : Focus on germination and root elongation test parameters. <i>Comptes Rendus - Biologies</i> , 2017 , 340, 188-194	1.4	61
104	Characterization of crosslinked starch materials with spectroscopic techniques. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 2650-2663	2.9	60
103	Grafting of cyclodextrins onto polypropylene nonwoven fabrics for the manufacture of reactive filters. I. Synthesis parameters. <i>Journal of Applied Polymer Science</i> , 2000 , 77, 2118-2125	2.9	54
102	New sorbents containing beta-cyclodextrin. Synthesis, characterization, and sorption properties. <i>Reactive and Functional Polymers</i> , 1999 , 42, 173-180	4.6	53
101	Adsorption-Oriented Processes Using Conventional and Non-conventional Adsorbents for Wastewater Treatment. <i>Environmental Chemistry for A Sustainable World</i> , 2018 , 23-71	0.8	49
100	Dye removal by biosorption using cross-linked chitosan-based hydrogels. <i>Environmental Chemistry Letters</i> , 2019 , 17, 1645-1666	13.3	47

99	Heavy metal removal from industrial effluents by sorption on cross-linked starch: chemical study and impact on water toxicity. <i>Journal of Environmental Management</i> , 2011 , 92, 765-72	7.9	45
98	Pollutant removal from industrial discharge water using individual and combined effects of adsorption and ion-exchange processes: Chemical abatement. <i>Journal of Saudi Chemical Society</i> , 2016 , 20, 185-194	4.3	44
97	Fundamentals and Applications of Chitosan. <i>Sustainable Agriculture Reviews</i> , 2019 , 49-123	1.3	42
96	Chitosan for direct bioflocculation of wastewater. <i>Environmental Chemistry Letters</i> , 2019 , 17, 1603-1621	13.3	41
95	Starch-modified filters used for the removal of dyes from waste water. <i>Macromolecular Symposia</i> , 2003 , 203, 165-172	0.8	41
94	Desulfurization: Critical step towards enhanced selenium removal from industrial effluents. <i>Chemosphere</i> , 2017 , 172, 111-119	8.4	36
93	Immobilization of pyrazole compounds on silica gels and their preliminary use in metal ion extraction. <i>New Journal of Chemistry</i> , 2003 , 27, 1224	3.6	36
92	Preparation of pyrazole compounds for attachment to chelating resins. <i>European Polymer Journal</i> , 2000 , 36, 1885-1892	5.2	36
91	130 years of cyclodextrin discovery for health, food, agriculture, and the industry: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 2581-2617	13.3	36
90	Cross-linked cyclodextrin-based material for treatment of metals and organic substances present in industrial discharge waters. <i>Beilstein Journal of Organic Chemistry</i> , 2016 , 12, 1826-1838	2.5	34
89	High sensitivity of <i>Gammarus</i> sp. juveniles to deltamethrin: outcomes for risk assessment. <i>Ecotoxicology and Environmental Safety</i> , 2010 , 73, 1402-7	7	33
88	Hemp-based adsorbents for sequestration of metals: a review. <i>Environmental Chemistry Letters</i> , 2019 , 17, 393-408	13.3	33
87	New tetrapyrazolic macrocycle. Synthesis and preliminary use in metal ion extraction. <i>Tetrahedron</i> , 2004 , 60, 939-942	2.4	32
86	NMR characterization of N-benzyl sulfonated derivatives of chitosan. <i>Carbohydrate Polymers</i> , 1997 , 33, 145-151	10.3	31
85	Grafting of cyclodextrins onto polypropylene nonwoven fabrics for the manufacture of reactive filters. III. Study of the sorption properties. <i>Journal of Applied Polymer Science</i> , 2002 , 85, 1771-1778	2.9	31
84	Decontamination of polluted discharge waters from surface treatment industries by pressure-driven membranes: Removal performances and environmental impact. <i>Chemical Engineering Journal</i> , 2014 , 258, 309-319	14.7	30
83	Sorption properties toward substituted phenolic derivatives in water using macroporous polyamines containing β -cyclodextrin. <i>Journal of Applied Polymer Science</i> , 1999 , 73, 2903-2910	2.9	30
82	Synthesis of silica materials containing cyclodextrin and their applications in wastewater treatment. <i>Environmental Chemistry Letters</i> , 2019 , 17, 683-696	13.3	30

81	Sorption onto crosslinked cyclodextrin polymers for industrial pollutants removal: an interesting environmental approach. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2011 , 70, 315-320		29
80	Macroporous polyamines containing cyclodextrin: Synthesis, characterization, and sorption properties. <i>Journal of Applied Polymer Science</i> , 1998 , 69, 1419-1427	2.9	29
79	Environment-Friendly Approach toward the Treatment of Raw Agricultural Wastewater and River Water via Flocculation Using Chitosan and Bean Straw Flour as Bioflocculants. <i>ACS Omega</i> , 2020 , 5, 3943-3951	3.9	24
78	Adsorption of C.I. Basic Blue 9 on chitosan-based materials. <i>International Journal of Environment and Pollution</i> , 2008 , 34, 451	0.7	24
77	Unexpected toxic interactions in the freshwater amphipod <i>Gammarus pulex</i> (L.) exposed to binary copper and nickel mixtures. <i>Environmental Science and Pollution Research</i> , 2014 , 21, 1099-111	5.1	23
76	Grafting of cyclodextrins onto polypropylene nonwoven fabrics for the manufacture of reactive filters. II. Characterization. <i>Journal of Applied Polymer Science</i> , 2000 , 78, 2166-2173	2.9	22
75	Advanced oxidation (UV-ozone) and cyclodextrin sorption: Effects of individual and combined action on the chemical abatement of organic pollutants in industrial effluents. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014 , 45, 603-608	5.3	19
74	Vinylpyrrolidone-beta-cyclodextrin copolymer: a novel chiral selector for capillary electrophoresis. <i>Electrophoresis</i> , 1999 , 20, 2614-8	3.6	19
73	Non-Conventional Adsorbents for Dye Removal 2015 , 359-407		18
72	Fundamentals and Applications of Cyclodextrins. <i>Environmental Chemistry for A Sustainable World</i> , 2018 , 1-55	0.8	18
71	Metals in aqueous solutions and real effluents: biosorption behavior of a hemp-based felt. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 2592-2601	3.5	18
70	Wastewater Treatment: An Overview. <i>Environmental Chemistry for A Sustainable World</i> , 2018 , 1-21	0.8	18
69	Starch-based biosorbents for dyes in textile wastewater treatment. <i>International Journal of Environmental Technology and Management</i> , 2010 , 12, 129	0.6	17
68	Determination of azole fungal residues in soils and detection of <i>Aspergillus fumigatus</i> -resistant strains in market gardens of Eastern France. <i>Environmental Science and Pollution Research</i> , 2018 , 25, 32015-32023	5.1	17
67	Simultaneous removal of Cd, Co, Cu, Mn, Ni, and Zn from synthetic solutions on a hemp-based felt. II. Chemical modification. <i>Journal of Applied Polymer Science</i> , 2017 , 134, 45138	2.9	16
66	Simultaneous removal of five triazole fungicides from synthetic solutions on activated carbons and cyclodextrin-based adsorbents. <i>Heliyon</i> , 2017 , 3, e00380	3.6	16
65	Novel crosslinked gels with starch derivatives. Polymer-water interactions. Applications in waste water treatment.. <i>Macromolecular Symposia</i> , 2001 , 166, 103-108	0.8	16
64	Remediation of Solutions Containing Oxyanions of Selenium by Ultrafiltration: Study of Rejection Performances with and without Chitosan Addition. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 10461-10471	3.9	15

63	Studies on adsorption of propiconazole on modified carbons. <i>Separation and Purification Technology</i> , 2005 , 46, 11-18	8.3	15
62	Removal of Mercury Ions from Aqueous Solutions by Crosslinked Chitosan-based Adsorbents: A Mini Review. <i>Chemical Record</i> , 2020 , 20, 1220-1234	6.6	13
61	Poly(vinylamine)-coated capillaries with reversed electroosmotic flow for the separation of organic anions. <i>Journal of Chromatography A</i> , 1999 , 836, 81-91	4.5	12
60	HEMP DECONTAMINATION OF POLY-METALLIC AQUEOUS SOLUTIONS. <i>Environmental Engineering and Management Journal</i> , 2017 , 16, 535-542	0.6	12
59	Cross-Linked Chitosan-Based Hydrogels for Dye Removal. <i>Sustainable Agriculture Reviews</i> , 2019 , 381-425	5.3	10
58	Allylamine-beta-cyclodextrin copolymer. A novel chiral selector for capillary electrophoresis. <i>Journal of Chromatography A</i> , 2000 , 894, 95-103	4.5	10
57	Removal of emerging contaminants from wastewater using advanced treatments. A review. <i>Environmental Chemistry Letters</i> , 2022 , 20, 1333	13.3	10
56	Contributions of Dexter French (1918-1981) to cycloamylose/cyclodextrin and starch science. <i>Carbohydrate Polymers</i> , 2021 , 257, 117620	10.3	9
55	Simultaneous removal of Cd, Co, Cu, Mn, Ni and Zn from synthetic solutions on a hemp-based felt: Experimental design. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	8
54	Bio-waste valorisation: Agricultural wastes as biosorbents for removal of (in)organic pollutants in wastewater treatment. <i>Chemical Engineering Journal Advances</i> , 2022 , 9, 100239	3.6	8
53	Chemical and Ecotoxicological Monitoring of Discharge Water from a Metal-Finishing Factory. <i>Environmental Processes</i> , 2016 , 3, 59-72	2.8	8
52	The contribution of Franz Schardinger to cyclodextrins: a tribute on the occasion of the centenary of his death. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2020 , 97, 19-28	1.7	7
51	DISCHARGE WATERS: DETERMINATION OF POLYCYCLIC AROMATIC HYDROCARBON (PAH) LEVELS BY A GC-MS/MS METHOD. <i>Environmental Engineering and Management Journal</i> , 2015 , 14, 1195-1202	0.6	7
50	Cyclodextrin-β-pichlorohydrin polymers synthesis, characterization and applications to wastewater treatment: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 2383-2403	13.3	7
49	Historical Landmarks in the Discovery of Chitin. <i>Sustainable Agriculture Reviews</i> , 2019 , 1-47	1.3	6
48	Hemp-Based Materials for Metal Removal. <i>Environmental Chemistry for A Sustainable World</i> , 2018 , 1-34	0.8	6
47	La bioadsorption sur amidon récolté pour enlever des métaux des effluents industriels. <i>Revue Des Sciences De L'Eau</i> , 2010 , 23, 275-287	0.2	6
46	Analytical Monitoring of the Chemicals Present in the Discharge Water Generated by the Surface Treatment Industry. <i>Journal of Environmental Protection</i> , 2013 , 04, 53-60	0.6	6

45	Simultaneous removal of Cd, Co, Cu, Mn, Ni, and Zn from synthetic solutions on a hemp-based felt. III. Real discharge waters. <i>Journal of Applied Polymer Science</i> , 2020 , 137, 48823	2.9	6
44	Chitosan for Direct Bioflocculation Processes. <i>Sustainable Agriculture Reviews</i> , 2019 , 335-380	1.3	5
43	Monitoring metal ions present in the effluent discharged from a surface treatment plant: Analytical results. <i>Comptes Rendus Chimie</i> , 2014 , 17, 1197-1202	2.7	5
42	Chapitre XI. Du chanvre pour dēpolluer des eaux polycontaminēes en mēaux 2017 , 323-340		5
41	Biosorbents from Plant Fibers of Hemp and Flax for Metal Removal: Comparison of Their Biosorption Properties. <i>Molecules</i> , 2021 , 26,	4.8	5
40	Hemp to limit diffusion of difenoconazole in vegetable garden soils. <i>Heliyon</i> , 2019 , 5, e02392	3.6	4
39	Traditional and New Applications of Hemp. <i>Sustainable Agriculture Reviews</i> , 2020 , 37-87	1.3	4
38	History of Cyclodextrins. <i>Environmental Chemistry for A Sustainable World</i> , 2020 , 1-93	0.8	4
37	Simultaneous Removal of Inorganic and Organic Pollutants from Polycontaminated Wastewaters on Modified Hemp-Based Felts. <i>Revista De Chimie (discontinued)</i> , 2021 , 72, 25-43	1.8	4
36	Analysis of Triazole Fungicides in Aqueous Solutions and Their Removal on Modified Activated Carbons. <i>Arabian Journal for Science and Engineering</i> , 2018 , 43, 3493-3501	2.5	4
35	Twenty years of dextrin research: a tribute to Professor Hans Pringsheim (1876-1940). <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2020 , 98, 11-27	1.7	3
34	Adsorption of a triazole antifungal agent, difenoconazole, on soils from a cereal farm: Protective effect of hemp felt. <i>Environmental Technology and Innovation</i> , 2021 , 22, 101394	7	3
33	Monitoring and Origin of Polycyclic Aromatic Hydrocarbons (PAHs) in Effluents from a Surface Treatment Industry. <i>Polycyclic Aromatic Compounds</i> , 2019 , 39, 452-461	1.3	3
32	Use of Chēevotte, a Valuable Co-Product of Industrial Hemp Fiber, as Adsorbent for Pollutant Removal. Part I: Chemical, Microscopic, Spectroscopic and Thermogravimetric Characterization of Raw and Modified Samples. <i>Molecules</i> , 2021 , 26,	4.8	3
31	In Memoriam Benito Casu (1927-2016). <i>Carbohydrate Research</i> , 2017 , 448, 227-228	2.9	2
30	Suivi et optimisation d'une station de dēcontamination des eaux usēes de la filiē traitement de surface : abattement chimique et impact ēotoxicologique. <i>Revue Des Sciences De L'Eau</i> , 2011 , 24, 329-341 ^{0.2}		2
29	Use of chēevotte, a valuable co-product of industrial hemp fiber, as adsorbent for copper ions: Kinetic studies and modeling. <i>Arabian Journal of Chemistry</i> , 2022 , 15, 103742	5.9	2
28	Chapitre XII. Cyclodextrines rēiculēes pour traiter des eaux contaminēes 2017 , 341-371		2

27	Insoluble Polymers with High Amounts of CD: Characterization and Adsorption Capacity 1999 , 175-178		2
26	Sorption of 4-n-nonylphenol, 4-n-octylphenol, and 4-tert-octylphenol on cyclodextrin polymers. <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	2
25	Emerging Contaminants: Analysis, Aquatic Compartments and Water Pollution. <i>Environmental Chemistry for A Sustainable World</i> , 2021 , 1-111	0.8	2
24	Remediation of Emerging Contaminants. <i>Environmental Chemistry for A Sustainable World</i> , 2021 , 1-106	0.8	2
23	Outstanding contribution of Professor József Szejtli to cyclodextrin applications in foods, cosmetics, drugs, chromatography and biotechnology: a review. <i>Environmental Chemistry Letters</i> , 2021 , 19, 2619-2641	13.3	2
22	Worldwide cases of water pollution by emerging contaminants: a review. <i>Environmental Chemistry Letters</i> , 1	13.3	2
21	Optimisation of an industrial wastewater decontamination plant: An environment-oriented approach. <i>Canadian Journal of Chemical Engineering</i> , 2014 , 92, 391-400	2.3	1
20	Professor József Szejtli: The Godfather of Cyclodextrins. <i>Environmental Chemistry for A Sustainable World</i> , 2020 , 95-155	0.8	1
19	The contribution of professor Paul Karrer (1889-1971) to dextrans. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2021 , 99, 155-167	1.7	1
18	Silica Materials Containing Cyclodextrin for Pollutant Removal. <i>Environmental Chemistry for A Sustainable World</i> , 2018 , 149-182	0.8	1
17	Technologies to Remove Selenium from Water and Wastewater. <i>Environmental Chemistry for A Sustainable World</i> , 2021 , 207-304	0.8	1
16	Advanced Treatments for the Removal of Alkylphenols and Alkylphenol Polyethoxylates from Wastewater. <i>Environmental Chemistry for A Sustainable World</i> , 2021 , 305-398	0.8	1
15	Hemp-Based Materials for Applications in Wastewater Treatment by Biosorption-Oriented Processes: A Review 2022 , 239-295		1
14	Methods for selenium removal from contaminated waters: a review. <i>Environmental Chemistry Letters</i> , 1	13.3	1
13	Chitin and chitosan: Production, properties, and applications 2022 , 149-207		1
12	Innovative technologies to remove alkylphenols from wastewater: a review. <i>Environmental Chemistry Letters</i> , 1	13.3	0
11	Revealing the adsorption mechanism of copper on hemp-based materials through EDX, nano-CT, XPS, FTIR, Raman, and XANES characterization techniques. <i>Chemical Engineering Journal Advances</i> , 2022 , 10, 100282	3.6	0
10	Professor Casu and Cyclodextrins. <i>Environmental Chemistry for A Sustainable World</i> , 2020 , 157-179	0.8	

- 9 Water-Insoluble Cyclodextrin-Epichlorohydrin Polymers. *Environmental Chemistry for A Sustainable World*, **2020**, 345-394 0.8
- 8 Emergence of a Pathogenic Fungus Resistant to Triazole Antifungal Drugs. *Environmental Chemistry for A Sustainable World*, **2021**, 165-206 0.8
- 7 Professor Casu's contribution to cyclodextrins, the remarkable cage-shaped molecules: a review. *Environmental Chemistry Letters*, **2022**, 1-13 13.3
- 6 The period of doubt: 1950-1970 **2022**, 111-124
- 5 Exploration: 1930-1950 **2022**, 91-110
- 4 Discovery: 1799-1894 **2022**, 15-56
- 3 The period of application: From 1970 until now **2022**, 125-148
- 2 A period of confusion and controversy: 1894-1930 **2022**, 57-90
- 1 Historical review **2022**, 1-13