

Michel Baudu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1726835/publications.pdf>

Version: 2024-02-01

91
papers

4,561
citations

109137

35
h-index

102304

66
g-index

93
all docs

93
docs citations

93
times ranked

4996
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Relations between extraction protocols for activated sludge extracellular polymeric substances (EPS) and EPS complexation properties. <i>Enzyme and Microbial Technology</i> , 2006, 38, 237-245. | 1.6 | 362 |
| 2 | Relation between extracellular polymers' composition and its ability to complex Cd, Cu and Pb. <i>Chemosphere</i> , 2003, 52, 1701-1710. | 4.2 | 282 |
| 3 | Comparison of the complexation potential of extracellular polymeric substances (EPS), extracted from activated sludges and produced by pure bacteria strains, for cadmium, lead and nickel. <i>Chemosphere</i> , 2005, 59, 629-638. | 4.2 | 260 |
| 4 | Biosorption properties of extracellular polymeric substances (EPS) towards Cd, Cu and Pb for different pH values. <i>Journal of Hazardous Materials</i> , 2008, 151, 185-193. | 6.5 | 251 |
| 5 | Biosorption properties of extracellular polymeric substances (EPS) resulting from activated sludge according to their type: Soluble or bound. <i>Process Biochemistry</i> , 2006, 41, 815-823. | 1.8 | 232 |
| 6 | Aqueous heavy metals removal on amine-functionalized Si-MCM-41 and Si-MCM-48. <i>Journal of Hazardous Materials</i> , 2009, 171, 1001-1008. | 6.5 | 213 |
| 7 | Cell surface characterisation of <i>Microcystis aeruginosa</i> and <i>Chlorella vulgaris</i> . <i>Journal of Colloid and Interface Science</i> , 2010, 342, 293-299. | 5.0 | 201 |
| 8 | Determination of some rheological parameters for the characterization of activated sludge. <i>Bioresource Technology</i> , 2003, 90, 215-220. | 4.8 | 107 |
| 9 | Adsorption of diuron and its degradation products from aqueous solution by surfactant-modified pillared clays. <i>Applied Clay Science</i> , 2007, 37, 240-250. | 2.6 | 100 |
| 10 | Effect of extraction method on EPS from activated sludge: An HPSEC investigation. <i>Journal of Hazardous Materials</i> , 2007, 140, 129-137. | 6.5 | 90 |
| 11 | Short term copper toxicity on <i>Microcystis aeruginosa</i> and <i>Chlorella vulgaris</i> using flow cytometry. <i>Aquatic Toxicology</i> , 2009, 94, 255-264. | 1.9 | 88 |
| 12 | Relationship between chemical and physical surface properties of activated carbon. <i>Water Research</i> , 1998, 32, 3414-3424. | 5.3 | 87 |
| 13 | Relations between extraction protocols for activated sludge extracellular polymeric substances (EPS) and complexation properties of Pb and Cd with EPS. <i>Enzyme and Microbial Technology</i> , 2006, 38, 246-252. | 1.6 | 80 |
| 14 | Copper and nitrophenol removal by low cost alginate/Mauritanian clay composite beads. <i>Chemical Engineering Journal</i> , 2011, 178, 168-174. | 6.6 | 73 |
| 15 | Phosphate removal from aqueous solution using ZVI/sand bed reactor: Behavior and mechanism. <i>Water Research</i> , 2016, 99, 56-65. | 5.3 | 73 |
| 16 | Effects of organic and inorganic matter on pesticide rejection by nanofiltration. <i>Desalination</i> , 2002, 145, 109-114. | 4.0 | 70 |
| 17 | Improvement of paint effluents coagulation using natural and synthetic coagulant aids. <i>Journal of Hazardous Materials</i> , 2006, 138, 40-45. | 6.5 | 70 |
| 18 | Amino-functionalized MCM-41 and MCM-48 for the removal of chromate and arsenate. <i>Journal of Colloid and Interface Science</i> , 2013, 404, 135-139. | 5.0 | 70 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Phosphate removal from aqueous solutions using zero valent iron (ZVI): Influence of solution composition and ZVI aging. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 514, 1-10. | 2.3 | 70 |
| 20 | Simultaneous sorption of 4-nitrophenol and 2-nitrophenol on a hybrid geocomposite based on surfactant-modified pillared-clay and activated carbon. <i>Chemical Engineering Journal</i> , 2015, 279, 964-972. | 6.6 | 67 |
| 21 | Environmental impact of two successive chemical treatments in a small shallow eutrophied lake: Part I. Case of aluminium sulphate. <i>Environmental Pollution</i> , 2002, 120, 617-626. | 3.7 | 66 |
| 22 | Viscosity evolution of anaerobic granular sludge. <i>Biochemical Engineering Journal</i> , 2006, 27, 315-322. | 1.8 | 66 |
| 23 | Environmental impact of two successive chemical treatments in a small shallow eutrophied lake: Part II. Case of copper sulfate. <i>Environmental Pollution</i> , 2002, 120, 627-634. | 3.7 | 60 |
| 24 | Alginate encapsulated pillared clays: removal of a neutral/anionic biocide (pentachlorophenol) and a cationic dye (safranin) from aqueous solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 366, 88-94. | 2.3 | 60 |
| 25 | Characterisation of the evolution of activated sludges using rheological measurements. <i>Process Biochemistry</i> , 2004, 39, 1803-1810. | 1.8 | 59 |
| 26 | Effect of copper sulphate treatment on natural phytoplanktonic communities. <i>Aquatic Toxicology</i> , 2006, 80, 267-280. | 1.9 | 59 |
| 27 | Copper and nitrophenol pollutants removal by Na-montmorillonite/alginate microcapsules. <i>Journal of Hazardous Materials</i> , 2009, 171, 405-409. | 6.5 | 58 |
| 28 | Toxicity of copper excess on the lichen <i>Dermatocarpon luridum</i> : Antioxidant enzyme activities. <i>Chemosphere</i> , 2006, 65, 1806-1813. | 4.2 | 57 |
| 29 | Cooperative coadsorption of 4-nitrophenol and basic yellow 28 dye onto an iron organo-inorgano pillared montmorillonite clay. <i>Journal of Colloid and Interface Science</i> , 2010, 350, 315-319. | 5.0 | 52 |
| 30 | Set up and assessment of a control strategy in a SBR in order to enhance nitrogen and phosphorus removal. <i>Process Biochemistry</i> , 2006, 41, 1994-2001. | 1.8 | 51 |
| 31 | Determination of chlorinated pesticides in water by SPME/GC. <i>Water Research</i> , 2002, 36, 1909-1911. | 5.3 | 49 |
| 32 | Fixed-bed column studies of pentachlorophenol removal by use of alginate-encapsulated pillared clay microbeads. <i>Journal of Colloid and Interface Science</i> , 2012, 379, 101-106. | 5.0 | 47 |
| 33 | Granular inorgano-organo pillared clays (GIOCs): Preparation by wet granulation, characterization and application to the removal of a Basic dye (BY28) from aqueous solutions. <i>Chemical Engineering Journal</i> , 2010, 158, 528-534. | 6.6 | 40 |
| 34 | Laboratory investigation of the phosphorus removal (SRP and TP) from eutrophic lake water treated with aluminium. <i>Water Research</i> , 2006, 40, 2713-2719. | 5.3 | 36 |
| 35 | Assessment of metal accumulation in calcareous soil and forage crops subjected to long-term irrigation using treated wastewater: Case of El Hajeb-Sfax, Tunisia. <i>Agriculture, Ecosystems and Environment</i> , 2012, 158, 83-93. | 2.5 | 36 |
| 36 | Removal of Sulfacid Brilliant Pink from an Aqueous Stream by Adsorption onto Surfactant-Modified Ti-Pillared Montmorillonite. <i>Environmental Technology (United Kingdom)</i> , 2002, 23, 405-411. | 1.2 | 35 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Title is missing!. Water, Air, and Soil Pollution, 2003, 146, 75-91. | 1.1 | 33 |
| 38 | Effect of ph and ionic environment changes on interparticle interactions affecting activated sludge flocs: A rheological approach. Environmental Technology (United Kingdom), 2003, 24, 971-978. | 1.2 | 33 |
| 39 | Effect of humic acids on pentachlorophenol sorption to cetyltrimethylammonium-modified, Fe- and Al-pillared montmorillonites. Applied Clay Science, 2010, 50, 58-63. | 2.6 | 33 |
| 40 | Influence d'un traitement thermique ou chimique des charbons actifs sur l'adsorption de composés organiques. Influence of heat or chemical treatment of activated carbon onto the adsorption of organic compounds. Water Research, 1994, 28, 1609-1617. | 5.3 | 32 |
| 41 | Towards a rheological parameter for activated sludge bulking characterisation. Enzyme and Microbial Technology, 2003, 33, 292-298. | 1.6 | 32 |
| 42 | Role of iron oxidation byproducts in the removal of phosphate from aqueous solution. RSC Advances, 2016, 6, 1627-1636. | 1.7 | 32 |
| 43 | Title is missing!. Water, Air, and Soil Pollution, 2003, 150, 3-22. | 1.1 | 30 |
| 44 | Use of a polarographic method to determine copper, nickel and zinc constants of complexation by extracellular polymers extracted from activated sludge. Process Biochemistry, 2004, 39, 833-839. | 1.8 | 29 |
| 45 | Sorption of basic dyes onto granulated pillared clays: Thermodynamic and kinetic studies. Journal of Colloid and Interface Science, 2012, 381, 158-163. | 5.0 | 29 |
| 46 | Estimation of the influence of structural elements of activated carbons on the energetic components of adsorption. Carbon, 2001, 39, 1879-1889. | 5.4 | 28 |
| 47 | Occurrence, fate and environmental risk assessment of pharmaceutical compounds in soils amended with organic wastes. Geoderma, 2020, 375, 114498. | 2.3 | 28 |
| 48 | La régénération par échauffement intrinsèque, de charbons actifs utilisés pour le traitement d'air. Environmental Technology (United Kingdom), 1992, 13, 423-435. | 1.2 | 27 |
| 49 | Identification of functional groups of Opuntia ficus-indica involved in coagulation process after its active part extraction. Environmental Science and Pollution Research, 2018, 25, 11111-11119. | 2.7 | 26 |
| 50 | Role des Polymères Extracellulaires Dans L'Adsorption du Cadmium Par Les Boues Activées. Role of Extracellular Polymers in Cadmium Adsorption by Activated Sludges. Environmental Technology (United Kingdom), 1999, 20, 1045-1054. | 1.2 | 25 |
| 51 | As(III) biological oxidation by CASO1 consortium in fixed-bed reactors. Process Biochemistry, 2010, 45, 171-178. | 1.8 | 25 |
| 52 | Use of the aquatic lichen Dermatocarpon luridum as bioindicator of copper pollution: Accumulation and cellular distribution tests. Environmental Pollution, 2005, 138, 455-461. | 3.7 | 24 |
| 53 | First approach of desorption energies of water and organic molecules onto activated carbon by differential scanning calorimetry studies. Water Research, 1993, 27, 69-76. | 5.3 | 23 |
| 54 | Planktonic microbial community responses to added copper. Aquatic Toxicology, 2007, 83, 223-237. | 1.9 | 23 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Static sorption of phenol and 4-nitrophenol onto composite geomaterials based on montmorillonite, activated carbon and cement. <i>Chemical Engineering Journal</i> , 2014, 255, 506-512. | 6.6 | 23 |
| 56 | Adsorption of basic dyes in single and mixture systems on granular inorganic-organic pillared clays. <i>Environmental Technology (United Kingdom)</i> , 2010, 31, 815-822. | 1.2 | 21 |
| 57 | Identification and role of <i>Opuntia ficus indica</i> constituents in the flocculation mechanism of colloidal solutions. <i>Separation and Purification Technology</i> , 2019, 209, 892-899. | 3.9 | 21 |
| 58 | Metal removal from single and multimetallic equimolar systems by extracellular polymers extracted from activated sludges as evaluated by SMDE polarography. <i>Process Biochemistry</i> , 2005, 40, 661-668. | 1.8 | 17 |
| 59 | Influence of humic acids on the adsorption of Basic Yellow 28 dye onto an iron organo-inorganic pillared clay and two Hydrated Ferric Oxides. <i>Journal of Colloid and Interface Science</i> , 2013, 395, 212-216. | 5.0 | 17 |
| 60 | Coagulation efficacy of a tannin coagulant agent compared to metal salts for paint manufacturing wastewater treatment. <i>Desalination and Water Treatment</i> , 2016, 57, 19199-19205. | 1.0 | 17 |
| 61 | <i>Myriophyllum alterniflorum</i> DC., biomonitor of metal pollution and water quality. Sorption/accumulation capacities and photosynthetic pigments composition changes after copper and cadmium exposure. <i>Science of the Total Environment</i> , 2007, 373, 564-571. | 3.9 | 16 |
| 62 | Modeling of basic green 4 dynamic sorption onto granular organo-inorganic pillared clays (GOICs) in column reactor. <i>Chemical Engineering Journal</i> , 2012, 209, 7-12. | 6.6 | 16 |
| 63 | Synthesis and characterization of reinforced hybrid porous beads: Application to the adsorption of malachite green in aqueous solution. <i>Chemical Engineering Research and Design</i> , 2017, 120, 291-302. | 2.7 | 16 |
| 64 | Hysteresis area, a rheological parameter used as a tool to assess the ability of filamentous sludges to settle. <i>Process Biochemistry</i> , 2005, 40, 2671-2676. | 1.8 | 14 |
| 65 | Treatment of Textile Wastewater Using a Natural Flocculant. <i>Environmental Technology (United Kingdom)</i> , 2003, 24, 787-796. | 1.2 | 14 |
| 66 | Dynamic sorption of ionizable organic compounds (IOCs) and xylene from water using geomaterial-modified montmorillonite. <i>Journal of Hazardous Materials</i> , 2007, 147, 738-745. | 6.5 | 14 |
| 67 | Wastewater treatment in a hybrid activated sludge baffled reactor. <i>Journal of Hazardous Materials</i> , 2008, 154, 550-557. | 6.5 | 14 |
| 68 | Reuse of olive mill wastewater as a bioflocculant for water treatment processes. <i>Journal of Cleaner Production</i> , 2020, 246, 119031. | 4.6 | 12 |
| 69 | Role of organic matter in copper mobility in a polymictic lake following copper sulfate treatment (Courtille Lake, France). <i>Environmental Technology (United Kingdom)</i> , 2003, 24, 787-796. | 1.2 | 11 |
| 70 | <i>Myriophyllum alterniflorum</i> DC. Effect of low concentrations of copper and cadmium on somatic and photosynthetic endpoints: A chemometric approach. <i>Ecological Indicators</i> , 2009, 9, 307-312. | 2.6 | 11 |
| 71 | Evaluation of the use of free or supported phenalenone based on natural halloysite for phenol photodegradation in aqueous solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 404, 112904. | 2.0 | 11 |
| 72 | Characterisation of the structural state of flocculent microorganisms in relation to the purificatory performances of sequencing batch reactors. <i>Biochemical Engineering Journal</i> , 2004, 21, 171-181. | 1.8 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Mesoporous silicas: improving the adsorption efficiency of phenolic compounds by the removal of amino group from functionalized silicas. <i>RSC Advances</i> , 2015, 5, 41631-41638. | 1.7 | 10 |
| 74 | Effects of treated wastewater irrigation on soil salinity and sodicity in Sfax (Tunisia): A case study. <i>Revue Des Sciences De L'Eau</i> , 0, 23, 133-146. | 0.2 | 9 |
| 75 | Macroporous alginate/ferrihydrite hybrid beads used to remove anionic dye in batch and fixed-bed reactors. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 74, 129-135. | 2.7 | 9 |
| 76 | Impacts of irrigation systems on vertical and lateral metals distribution in soils irrigated with treated wastewater: Case study of Elhajeb-Sfax. <i>Agricultural Water Management</i> , 2019, 225, 105739. | 2.4 | 7 |
| 77 | Synthesis of CuO-modified silicon nanowires as a photocatalyst for the degradation of malachite green. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2021, 134, 971-987. | 0.8 | 7 |
| 78 | Etude de l'adsorption de composés organiques dans l'eau sur une argile greffée et comparaison avec d'autres matériaux adsorbants. <i>Environmental Technology (United Kingdom)</i> , 1993, 14, 247-256. | 1.2 | 6 |
| 79 | Application of the Ias Theory Combining to A Three Compartments Description of Natural Organic Matter to the Adsorption of Atrazine or Diuron on Activated Carbon. <i>Environmental Technology (United Kingdom)</i> , 2004, 25, 763-773. | 1.2 | 6 |
| 80 | Aerobic treatment of leachate from municipal solid waste in Morocco. <i>Proceedings of Institution of Civil Engineers: Waste and Resource Management</i> , 2016, 169, 92-100. | 0.9 | 5 |
| 81 | Photodegradation of tebuconazole in a fluidized bed reactor mediated by phenalenone supported on sand. <i>Chemical Engineering Journal</i> , 2021, 410, 128332. | 6.6 | 5 |
| 82 | Preparation of novel diatomite-based composites: applications in organic effluents sorption. <i>Desalination and Water Treatment</i> , 2016, 57, 12443-12452. | 1.0 | 4 |
| 83 | Photodegradation of tebuconazole mediated by a novel hybrid phenalenone based photosensitizer. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 408, 113124. | 2.0 | 4 |
| 84 | Comparison of wastewater treatment efficiencies in packed bed bioreactors according to the nature of materials. <i>Journal of Water Process Engineering</i> , 2019, 29, 100790. | 2.6 | 3 |
| 85 | Structuration of biosorbents in the form of reinforced gelled and porous composites based on <i>Opuntia ficus indica</i> (cactus) extract and sodium alginate. <i>Journal of Water Process Engineering</i> , 2022, 46, 102612. | 2.6 | 3 |
| 86 | Nature and accessibility of organic matter in lacustrine sediment. <i>Journal of Soils and Sediments</i> , 2021, 21, 1504-1522. | 1.5 | 2 |
| 87 | Analyse thermique pour la desorption de charbon actif saturé de solvants. <i>Environmental Technology (United Kingdom)</i> , 1992, 13, 595-601. | 1.2 | 1 |
| 88 | Hydrodynamics and oxygen transfer in a novel extra-loop fluidized bed bioreactor. <i>Journal of Shanghai University</i> , 2010, 14, 266-274. | 0.1 | 1 |
| 89 | Nitrogen and phosphorus removal in a novel extra-loop fluidized bed bioreactor (EFBBR). <i>Desalination and Water Treatment</i> , 2015, 54, 1098-1108. | 1.0 | 1 |
| 90 | Impact of the nature of organic matter and/or its organo-mineral interaction on microbial activity in dam sediment. <i>Journal of Soils and Sediments</i> , 2021, 21, 561-574. | 1.5 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 91 | Contribution de la Mesure de la Turbidite au Controle du Fonctionnement des Stations D'Epuraton Biologiques Turbidity Measurement Contribution for Biological Waste Water Treatment Process. Environmental Technology (United Kingdom), 1995, 16, 355-366. | 1.2 | 0 |