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## Pseudo-second order model for sorption processes

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| 1478 | Isotherm and kinetic studies of Burazol Blue ED dye biosorption by dried anaerobic sludge. <b>2009</b> , 165, 279-84  | 31  |

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| 1460 | Removal of Reactive Black 5 from aqueous solutions using magnetic chitosan resins. <b>2009</b> , 167, 383-92  | 136 |

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| 1209 | Equilibrium, thermodynamic and kinetic studies for the biosorption of aqueous lead(II) ions onto the seed husk of <i>Calophyllum inophyllum</i> . <b>2010</b> , 177, 829-35                                      | 94  |
| 1208 | Adsorption of Ag, Cu and Hg from aqueous solutions using expanded perlite. <b>2010</b> , 177, 950-5  | 131 |



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| 1207 | Adsorption of Cu(II), Co(II), and Ni(II) ions by modified magnetic chitosan chelating resin. <b>2010</b> , 177, 962-70  | 269 |
| 1206 | Screening of novel low-cost adsorbents from agricultural residues to remove ammonia nitrogen from aqueous solution. <b>2010</b> , 178, 1132-6                                     | 54  |
| 1205 | Bioadsorption of methyl violet from aqueous solution onto Pu-erh tea powder. <b>2010</b> , 179, 43-8  | 60  |
| 1204 | Biosorption of Zn(II) by live and dead cells of <i>Streptomyces ciscaucasicus</i> strain CCNWHX 72-14. <b>2010</b> , 179, 151-9   | 117 |
| 1203 | Adsorptive recovery of UO <sub>2</sub> (2+) from aqueous solutions using collagen-tannin resin. <b>2010</b> , 179, 295-302  | 60  |
| 1202 | Adsorption of Pb(II) ions from aqueous solution by native and activated bentonite: kinetic, equilibrium and thermodynamic study. <b>2010</b> , 179, 332-9                         | 193 |
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| 1200 | Comparison of the efficiency of activated carbon and neutral polymeric adsorbent in removal of chromium complex dye from aqueous solutions. <b>2010</b> , 179, 933-9              | 33  |
| 1199 | Development of organovermiculite-based adsorbent for removing anionic dye from aqueous solution. <b>2010</b> , 180, 499-507   | 58  |
| 1198 | Adsorptive removal of methyl orange from aqueous solution with metal-organic frameworks, porous chromium-benzenedicarboxylates. <b>2010</b> , 181, 535-535                        | 476 |
| 1197 | Adsorption of methyl orange from aqueous solution onto calcined Lapindo volcanic mud. <b>2010</b> , 181, 755-62   | 185 |
| 1196 | Sorption of strontium on uranyl peroxide: implications for a high-level nuclear waste repository. <b>2010</b> , 181, 881-5  | 28  |
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| 1192 | Adsorptive recovery of Au <sup>3+</sup> from aqueous solutions using bayberry tannin-immobilized mesoporous silica. <b>2010</b> , 183, 793-8                                      | 105 |
| 1191 | Preparation and characterization of chelating fibers based on natural wool for removal of Hg(II), Cu(II) and Co(II) metal ions from aqueous solutions. <b>2010</b> , 184, 118-125 | 73  |
| 1190 | Single and binary adsorption of reactive dyes from aqueous solutions onto clinoptilolite. <b>2010</b> , 184, 164-169  | 70  |

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| 1173 | Sorption studies of nitrate ion by a modified beet residue in the presence and absence of ultrasound. <b>2010</b> , 17, 711-7  | 33  |
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| 1162 | Copper sorption from aqueous solutions and sugar cane spirits by chemically modified babassu coconut ( <i>Orbignya speciosa</i> ) mesocarp. <b>2010</b> , 161, 99-105                                     | 51  |
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| 1152 | Biosorption of antimony from aqueous solution by lichen ( <i>Physcia tribacia</i> ) biomass. <b>2010</b> , 163, 382-388  | 55  |
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| 877 | Adsorption of BTX (benzene, toluene, o-xylene, and p-xylene) from aqueous solutions by modified periodic mesoporous organosilica. <b>2011</b> , 363, 626-34                      | 55  |
| 876 | Benzalkonium chloride and sulfamethoxazole adsorption onto natural clinoptilolite: effect of time, ionic strength, pH and temperature. <b>2011</b> , 363, 465-75                 | 42  |
| 875 | Adsorption of phenol from water by N-butylimidazolium functionalized strongly basic anion exchange resin. <b>2011</b> , 364, 462-8   | 58  |
| 874 | Adsorption kinetics of methylene blue onto Fe-doped sulfated titania. <b>2011</b> , 389, 12-17   | 7   |
| 873 | Removal of arsenic(V) from aqueous solutions using 3-[2-(2-aminoethylamino)ethylamino]propyl-trimethoxysilane functionalized silica gel adsorbent. <b>2011</b> , 278, 238-243    | 42  |
| 872 | Adsorption of Copper (II) onto activated carbons from sewage sludge by microwave-induced phosphoric acid and zinc chloride activation. <b>2011</b> , 278, 231-237                | 112 |
| 871 | Assessment of the adsorption kinetics, equilibrium and thermodynamic for the potential removal of reactive red dye using eggshell biocomposite beads. <b>2011</b> , 278, 412-423 | 142 |
| 870 | Defluoridation of water using Brushite: Equilibrium, kinetic and thermodynamic studies. <b>2011</b> , 278, 1-9   | 43  |
| 869 | Nano-sulphonated poly (glycidyl methacrylate) cations exchanger for cadmium ions removal: Effects of operating parameters. <b>2011</b> , 279, 152-162                            | 28  |
| 868 | Arsenic removal from real arsenic-bearing groundwater by adsorption on iron-oxide-coated natural rock (IOCNR). <b>2011</b> , 280, 72-79  | 64  |
| 867 | Carbon nanocages as heavy metal ion adsorbents. <b>2011</b> , 280, 87-94   | 11  |
| 866 | Phosphate removal from aqueous solutions by adsorption using ferric sludge. <b>2011</b> , 280, 384-390   | 88  |

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| 865 | Equilibrium, kinetic and thermodynamic studies of adsorption of Cd(II) from aqueous solution onto HACCBentonite. <b>2011</b> , 280, 297-304   | 46  |
| 864 | Removal of arsenic from drinking water using modified natural zeolite. <b>2011</b> , 281, 396-403   | 90  |
| 863 | Characterization and evaluation catalytic efficiency of La <sub>0.5</sub> Ca <sub>0.5</sub> NiO <sub>3</sub> nanopowders in removal of reactive blue 5 from aqueous solution. <b>2011</b> , 281, 388-395                | 35  |
| 862 | Studies on adsorptive desulfurization by zirconia based adsorbents. <b>2011</b> , 90, 3209-3216   | 62  |
| 861 | Utilization of pretreated coir pith for the optimized bioproduction of cellulase by <i>Aspergillus nidulans</i> . <b>2011</b> , 65, 1150-1160   | 16  |
| 860 | Biosorption of Cu(II) and Pb(II) ions from aqueous solution by natural spider silk. <b>2011</b> , 102, 8807-13  | 33  |
| 859 | Adsorption of Crystal Violet from aqueous solution onto NaOH-modified rice husk. <b>2011</b> , 86, 1533-1541  | 370 |
| 858 | Kinetic modeling analysis for the removal of Cr(III) by Diphonix resin. <b>2011</b> , 172, 623-633  | 6   |
| 857 | A resin with high adsorption selectivity for Au (III): Preparation, characterization and adsorption properties. <b>2011</b> , 172, 713-720  | 66  |
| 856 | Development of magnetic activated carbon from almond shells for trinitrophenol removal from water. <b>2011</b> , 172, 1111-1125   | 224 |
| 855 | Biosorption behavior and mechanism of beryllium from aqueous solution by aerobic granule. <b>2011</b> , 172, 783-783  | 29  |
| 854 | Selective adsorption of 2,6-dichlorophenol by surface imprinted polymers using polyaniline/silica gel composites as functional support: Equilibrium, kinetics, thermodynamics modeling. <b>2011</b> , 172, 847-855      | 65  |
| 853 | Adsorption of Ni <sup>2+</sup> , Zn <sup>2+</sup> and Pb <sup>2+</sup> onto dry biomass of <i>Arthrospira (Spirulina) platensis</i> and <i>Chlorella vulgaris</i> . I. Single metal systems. <b>2011</b> , 173, 326-333 | 96  |
| 852 | Removal of textile dyes from aqueous solution by babassu coconut epicarp ( <i>Orbignya speciosa</i> ). <b>2011</b> , 173, 334-340   | 58  |
| 851 | Bentazon and carbofuran adsorption onto date seed activated carbon: Kinetics and equilibrium. <b>2011</b> , 173, 361-368  | 92  |
| 850 | Preparation and characterization of activated carbon from corncob by chemical activation with H <sub>3</sub> PO <sub>4</sub> for 2,4-dichlorophenoxyacetic acid adsorption. <b>2011</b> , 173, 391-399                  | 130 |
| 849 | Batch and fixed-bed adsorption of 2,4-dichlorophenoxyacetic acid onto oil palm frond activated carbon. <b>2011</b> , 174, 33-40   | 123 |
| 848 | Adsorption of pesticides from aqueous solution onto banana stalk activated carbon. <b>2011</b> , 174, 41-48   | 139 |

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| 847 | Preparation of poly(aniline-1,8-diaminonaphthalene) and its application as adsorbent for selective removal of Cr(VI) ions. <b>2011</b> , 173, 715-721   | 39  |
| 846 | Removal of lead from water by amino modified multi-walled carbon nanotubes. <b>2011</b> , 173, 855-865  | 193 |
| 845 | Investigation of macroporous weakly basic anion exchangers applicability in palladium(II) removal from acidic solutions batch and column studies. <b>2011</b> , 174, 510-521  | 36  |
| 844 | Regeneration of spent bleaching earth by treatment with cethyltrimethylammonium bromide for application in elimination of acid dye. <b>2011</b> , 174, 275-280  | 25  |
| 843 | Removal of Reactive Red 198 from aqueous solution by Potamogeton crispus. <b>2011</b> , 174, 579-585  | 35  |
| 842 | Optimized waste tea activated carbon for adsorption of Methylene Blue and Acid Blue 29 dyes using response surface methodology. <b>2011</b> , 175, 233-243  | 175 |
| 841 | Removal of Cd(II) and Ni(II) from aqueous solution by PVA/TEOS/TMPTMS hybrid membrane. <b>2011</b> , 175, 251-259   | 70  |
| 840 | Comparative study of lead sorption onto natural perlite, dolomite and diatomite. <b>2011</b> , 178, 317-323   | 110 |
| 839 | Congo Red adsorption by ball-milled sugarcane bagasse. <b>2011</b> , 178, 122-128   | 153 |
| 838 | Preparation of core-shell magnetic ion-imprinted polymer for selective extraction of Pb(II) from environmental samples. <b>2011</b> , 178, 443-450  | 122 |
| 837 | Copper and nitrophenol removal by low cost alginate/Mauritanian clay composite beads. <b>2011</b> , 178, 168-174  | 66  |
| 836 | Synthesis and swelling behavior of pH-sensitive semi-interpenetrating polymer network composite hydrogels based on native and modified potatoes starch as potential sorbent for cationic dyes. <b>2011</b> , 178, 252-263                                 | 99  |
| 835 | The impact of EDTA on the rate of accumulation and root/shoot partitioning of cadmium in mature dwarf sunflowers. <b>2011</b> , 83, 1539-45   | 18  |
| 834 | Synthesis and Application of Co-Poly(2-hydroxyethyl methacrylate-ethylene dimethacrylate) Coupled with Alizarin Yellow for Preconcentration and Determination of Lead in Water Samples by Flame Atomic Absorption Spectrometry. <b>2011</b> , 58, 474-481 | 1   |
| 833 | Adsorption behavior of the catechins and caffeine onto polyvinylpyrrolidone. <b>2011</b> , 59, 4238-47  | 46  |
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| 831 | Adsorption properties of a nanostructured hybrid material containing aluminium towards some metal ions. <b>2011</b> , 9, 932-940  | 1   |
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| 829 | Effect of electrolyte nature on kinetics of remazol yellow G removal by electrocoagulation. <b>2011</b> , 85, 1820-1824  | 3  |
| 828 | Adsorption of methylene blue dye from aqueous solution by agricultural waste: Equilibrium, thermodynamics, kinetics, mechanism and process design. <b>2011</b> , 73, 651-661 | 58 |
| 827 | Ion reactivity of calcium-deficient hydroxyapatite in standard cell culture media. <b>2011</b> , 7, 4242-52  | 70 |
| 826 | Adsorption characteristics of uranyl ions by manganese oxide coated sand in batch mode. <b>2011</b> , 288, 239-249   | 14 |
| 825 | Sorption of uranium(VI) from aqueous solution onto magnesium silicate hollow spheres. <b>2011</b> , 289, 367-374   | 30 |
| 824 | Adsorption of indigo carmine from aqueous solution using coal fly ash and zeolite from fly ash. <b>2011</b> , 289, 617-626   | 46 |
| 823 | Isotherm, thermodynamic and kinetic studies of Sr <sup>2+</sup> adsorption on spherical TiO <sub>2</sub> /PAN composites. <b>2011</b> , 289, 537-544                         | 5  |
| 822 | Equilibrium and Kinetic Studies on Biosorption of Heavy Metals by Leaf Powder of Paper Mulberry ( <i>Broussonetia papyrifera</i> ). <b>2011</b> , 215, 177-188               | 44 |
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| 819 | Kinetic Study of BTEX Removal Using Granulated Surfactant-Modified Natural Zeolites Nanoparticles. <b>2011</b> , 219, 443-457  | 41 |
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| 815 | Biosorption of an Azo Dye by <i>Aspergillus niger</i> and <i>Trichoderma</i> sp. Fungal Biomasses. <b>2011</b> , 62, 351-7   | 33 |
| 814 | Removal of cationic dyes from aqueous solutions with poly (N-isopropylacrylamide-co-itaconic acid) hydrogels. <b>2011</b> , 66, 551-570                                      | 53 |
| 813 | Adsorption kinetics and thermodynamic parameters of egg white proteins. <b>2011</b> , 232, 985-993   | 5  |
| 812 | Application of hybrid and moment methods to the measurement of moisture diffusion coefficients of building materials. <b>2011</b> , 47, 1491-1498                            | 3  |

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| 811 | Adsorption of cadmium on carbonaceous adsorbents developed from used tire rubber. <b>2011</b> , 92, 2193-200   | 27  |
| 810 | Synthesis, characterization and kinetic of a surfactant-modified bentonite used to remove As(III) and As(V) from aqueous solution. <b>2011</b> , 185, 63-70                                  | 97  |
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| 807 | Cadmium adsorption by coal combustion ashes-based sorbents--relationship between sorbent properties and adsorption capacity. <b>2011</b> , 187, 371-8  | 39  |
| 806 | Modeling and evaluation of chromium remediation from water using low cost bio-char, a green adsorbent. <b>2011</b> , 188, 319-33   | 377 |
| 805 | Adsorptive removal of phenol from aqueous solutions on activated carbon prepared from tobacco residues: equilibrium, kinetics and thermodynamics. <b>2011</b> , 189, 397-403                 | 229 |
| 804 | Characterizations of strontium(II) and barium(II) adsorption from aqueous solutions using dolomite powder. <b>2011</b> , 190, 916-21   | 174 |
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| 801 | Adsorption behaviors of mercury from aqueous solution using sulfur-impregnated adsorbent developed from coal. <b>2011</b> , 92, 1322-1327  | 61  |
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| 797 | Artificial neural networks (ANN) approach for modeling of removal of Lanaset Red G on <i>Chara contraria</i> . <b>2011</b> , 102, 5634-8   | 56  |
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| 795 | Kinetic and equilibrium adsorption of Cu(II) and Cd(II) ions on <i>Eichhornia crassipes</i> in single and binary systems. <b>2011</b> , 168, 44-51   | 31  |
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| 788 | Removal of transition metal ions from aqueous solution by crosslinked polystyrene-supported bis-8-oxyquinoline-terminated open-chain crown ethers. <b>2011</b> , 170, 250-257  | 23  |
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| 771 | Thin-layer chromatographic plates with monolithic layer of silica: production, physical-chemical characteristics, separation capabilities. <b>2011</b> , 34, 2352-61 | 14 |
| 770 | Hexavalent chromium sorption by biomass of chromium tolerant <i>Pythium</i> sp. <b>2011</b> , 51, 173-82   | 9  |
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| 760 | Adsorption of Amaranth Dye onto Alumina Reinforced Polystyrene. <b>2011</b> , 39, 74-82  | 79 |
| 759 | Adsorption Characteristics of Reactive Black 5 from Aqueous Solution onto Chitosan. <b>2011</b> , 39, 984-993  | 47 |
| 758 | Adsorption of Cationic Dyes from Aqueous Solution by Termite Feces, a Non-Conventional Adsorbent. <b>2011</b> , 39, 549-556  | 11 |

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| 757 | Adsorption of Brilliant Green from Aqueous Solutions onto Crosslinked Chitosan Graft Copolymers. <b>2011</b> , 39, 1001-1006  | 26  |
| 756 | Removal of Cu <sup>2+</sup> and Pb <sup>2+</sup> Ions Using CMC Based Thermoresponsive Nanocomposite Hydrogel. <b>2011</b> , 39, 658-664  | 38  |
| 755 | Removal of Organochlorine Pesticides from Aqueous Solution by Using Neutralized Red Mud. <b>2011</b> , 39, 972-979  | 7   |
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| 749 | Dye adsorption and desorption properties of Mentha pulegium in single and binary systems. <b>2011</b> , 122, 1489-1499  | 37  |
| 748 | Physical and Adsorptive Characterization of Precipitated Magnesium Silicate from Rice Hull Ash Silica. <b>2011</b> , 34, 1497-1506  | 5   |
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| 744 | Adsorption behavior of nickel(II) onto cashew nut shell: Equilibrium, thermodynamics, kinetics, mechanism and process design. <b>2011</b> , 167, 122-131  | 226 |
| 743 | Equilibrium, thermodynamic and kinetic investigations on biosorption of arsenic from aqueous solution by algae ( <i>Maugeotia genuflexa</i> ) biomass. <b>2011</b> , 167, 155-161                                       | 130 |
| 742 | Studies on adsorption/desorption of nitrobenzene and humic acid onto/from activated carbon. <b>2011</b> , 168, 35-43  | 56  |
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| 739 | Adsorption characteristics of cytochrome C onto cationic Langmuir monolayers of sulfonated poly(glycidylmethacrylate)-grafted cellulose: Mass transfer analysis, isotherm modeling and thermodynamics. <b>2011</b> , 168, 678-690 | 36  |
| 738 | Removal of dyes from wastewaters by adsorption on pillared clays. <b>2011</b> , 168, 1032-1040  | 229 |
| 737 | Predictive modeling of removal of Lanaset Red G on <i>Chara contraria</i> ; kinetic, equilibrium, and thermodynamic studies. <b>2011</b> , 169, 166-172   | 27  |
| 736 | Adsorption of lead (Pb) from aqueous solution with <i>Typha angustifolia</i> biomass modified by SOCl <sub>2</sub> activated EDTA. <b>2011</b> , 170, 21-28   | 67  |
| 735 | Removal of Basic Red 46 dye from aqueous solution by pine tree leaves. <b>2011</b> , 170, 67-74   | 121 |
| 734 | Adsorption of 2,4,5-trichlorophenol by organo-montmorillonites from aqueous solutions: Kinetics and equilibrium studies. <b>2011</b> , 170, 120-126   | 59  |
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| 712 | Removal of copper(II) ions from aqueous solution by adsorption using cashew nut shell. <b>2011</b> , 266, 63-71  | 149 |
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