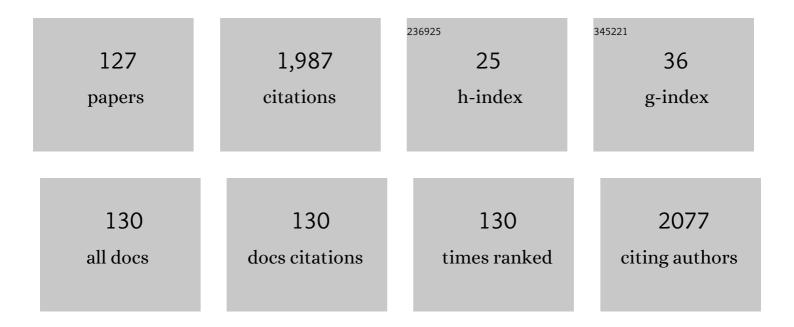
Maria da Graça Rasteiro

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Computational Fluid Dynamic Modelling of Fully-Suspended Slurry Flows in Horizontal Pipes with Different Solids Concentrations. KONA Powder and Particle Journal, 2023, 40, 219-235. | 1.7 | 0 |
| 2 | High-performance delignification of invasive tree species wood with ionic liquid and deep eutectic solvent for the production of cellulose-based polyelectrolytes. RSC Advances, 2022, 12, 3979-3989. | 3.6 | 7 |
| 3 | Effect of cationization pretreatment on the properties of cationic Eucalyptus micro/nanofibrillated cellulose. International Journal of Biological Macromolecules, 2022, 201, 468-479. | 7.5 | 20 |
| 4 | Composite Films of Nanofibrillated Cellulose with Sepiolite: Effect of Preparation Strategy. Coatings, 2022, 12, 303. | 2.6 | 8 |
| 5 | Extraction and Characterization of Microplastics from Portuguese Industrial Effluents. Polymers, 2022, 14, 2902. | 4.5 | 5 |
| 6 | Revisiting the dissolution of cellulose in H3PO4(aq) through cryo-TEM, PTssNMR and DWS. Carbohydrate Polymers, 2021, 252, 117122. | 10.2 | 10 |
| 7 | Lignin Extraction from Waste Pine Sawdust Using a Biomass Derived Binary Solvent System. Polymers, 2021, 13, 1090. | 4.5 | 15 |
| 8 | Heavy Metals Removal from Aqueous Solutions by Multiwall Carbon Nanotubes: Effect of MWCNTs Dispersion. Nanomaterials, 2021, 11, 2082. | 4.1 | 19 |
| 9 | Computational Fluid Dynamics Modelling of Liquid–Solid Slurry Flows in Pipelines: State-of-the-Art and Future Perspectives. Processes, 2021, 9, 1566. | 2.8 | 29 |
| 10 | Key-Parameters in Chemical Stabilization of Soils with Multiwall Carbon Nanotubes. Applied Sciences (Switzerland), 2021, 11, 8754. | 2.5 | 5 |
| 11 | Valorisation of invasive plant species in the production of polyelectrolytes. Industrial Crops and Products, 2021, 167, 113476. | 5.2 | 5 |
| 12 | Production of nanocellulose gels and films from invasive tree species. International Journal of Biological Macromolecules, 2021, 188, 1003-1011. | 7.5 | 16 |
| 13 | Stabilization of Palygorskite Aqueous Suspensions Using Bio-Based and Synthetic Polyelectrolytes. Polymers, 2021, 13, 129. | 4.5 | 8 |
| 14 | Evaluation of Anionic Eco-Friendly Flocculants Prepared from Eucalyptus Pulps with Diverse Lignin Contents for Application in Effluent Treatment. Polymers, 2021, 13, 25. | 4.5 | 3 |
| 15 | Up-scaling of tannin-based coagulants for wastewater treatment: performance in a water treatment plant. Environmental Science and Pollution Research, 2020, 27, 1202-1213. | 5.3 | 25 |
| 16 | Flocculation of silica nanoparticles by natural, wood-based polyelectrolytes. Separation and Purification Technology, 2020, 231, 115888. | 7.9 | 25 |
| 17 | Editorial: Advanced Processes for Wastewater Treatment and Water Reuse. Frontiers in Environmental Science, 2020, 8, . | 3.3 | 1 |
| 18 | Immobilization of Heavy Metals in Contaminated Soils—Performance Assessment in Conditions Similar to a Real Scenario. Applied Sciences (Switzerland), 2020, 10, 7950. | 2.5 | 15 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Characterization of Two Cactus Formulation-Based Flocculants and Investigation on Their Flocculating Ability for Cationic and Anionic Dyes Removal. Polymers, 2020, 12, 1964. | 4.5 | 8 |
| 20 | Microplastics in Ecosystems: From Current Trends to Bio-Based Removal Strategies. Molecules, 2020, 25, 3954. | 3.8 | 30 |
| 21 | Improving Colloidal Stability of Sepiolite Suspensions: Effect of the Mechanical Disperser and Chemical Dispersant. Minerals (Basel, Switzerland), 2020, 10, 779. | 2.0 | 15 |
| 22 | Experimental Fluid Dynamics Study of a New Fractal Dual-Flow Tray. Industrial & Engineering Chemistry Research, 2020, 59, 12545-12556. | 3.7 | 1 |
| 23 | Tuning rheology and aggregation behaviour of TEMPO-oxidised cellulose nanofibrils aqueous suspensions by addition of different acids. Carbohydrate Polymers, 2020, 237, 116109. | 10.2 | 39 |
| 24 | Data-Driven Modelling of the Complex Interaction between Flocculant Properties and Floc Size and Structure. Processes, 2020, 8, 349. | 2.8 | 5 |
| 25 | Experimental and Computational Fluid Dynamics Validation of Correlations for Dry Pressure Drop in Trays without Downcomer. Chemical Engineering and Technology, 2020, 43, 553-563. | 1.5 | 1 |
| 26 | The critical role of the dispersant agents in the preparation and ecotoxicity of nanomaterial suspensions. Environmental Science and Pollution Research, 2020, 27, 19845-19857. | 5.3 | 5 |
| 27 | Enhancing the autonomy of students in chemical engineering education with LABVIRTUAL platform. Education for Chemical Engineers, 2020, 31, 21-28. | 4.8 | 20 |
| 28 | Electrical Tomography: A Review of Configurations, and Application to Fibre Flow Suspensions Characterisation. Applied Sciences (Switzerland), 2020, 10, 2355. | 2.5 | 13 |
| 29 | Toward green technology: a review on some efficient model plant-based coagulants/flocculants for freshwater and wastewater remediation. Clean Technologies and Environmental Policy, 2020, 22, 1025-1040. | 4.1 | 45 |
| 30 | Evaluation of Anionic and Cationic Pulp-Based Flocculants With Diverse Lignin Contents for Application in Effluent Treatment From the Textile Industry: Flocculation Monitoring. Frontiers in Chemistry, 2020, 8, 5. | 3.6 | 23 |
| 31 | Oil/water flow in a horizontal pipe—dispersed flow regime. International Journal of Computational Methods and Experimental Measurements, 2020, 8, 123-134. | 0.2 | 0 |
| 32 | Experimental and Simulated Studies of Oil/Water Fully Dispersed Flow in a Horizontal Pipe. Journal of Fluids Engineering, Transactions of the ASME, 2019, 141, . | 1.5 | 6 |
| 33 | Effects of cobalt oxide nanomaterial on plants and soil invertebrates at different levels of biological organization. Journal of Soils and Sediments, 2019, 19, 3018-3034. | 3.0 | 10 |
| 34 | Cationization of <i>Eucalyptus</i> wood waste pulps with diverse lignin contents for potential application in colored wastewater treatment. RSC Advances, 2019, 9, 34814-34826. | 3.6 | 13 |
| 35 | Oil/water stratified flow in a horizontal pipe: Simulated and experimental studies using EIT. Journal of Petroleum Science and Engineering, 2019, 174, 1179-1193. | 4.2 | 19 |
| 36 | Is the aquatic toxicity of cationic polyelectrolytes predictable from selected physical properties?. Chemosphere, 2018, 202, 145-153. | 8.2 | 23 |

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| 37 | Flocculation Treatment of an Industrial Effluent: Performance Assessment by Laser Diffraction Spectroscopy. Industrial & amp; Engineering Chemistry Research, 2018, 57, 2628-2637. | 3.7 | 6 |
| 38 | Effects of Poly(vinyl chloride) Morphological Properties on the Rheology/Aging of Plastisols and on the Thermal/Leaching Properties of Films Formulated Using Nonconventional Plasticizers. Industrial & Engineering Chemistry Research, 2018, 57, 1454-1467. | 3.7 | 5 |
| 39 | Deriviation of Terrestrial Predicted No-Effect Concentration (PNEC) for Cobalt Oxide Nanomaterial. Advances in Science, Technology and Innovation, 2018, , 405-407. | 0.4 | О |
| 40 | Anionic Polyelectrolytes Synthesized in an Aromatic-Free-Oils Process for Application as Flocculants in Dairy-Industry-Effluent Treatment. Industrial & Engineering Chemistry Research, 2018, 57, 16884-16896. | 3.7 | 5 |
| 41 | Tannin-based Coagulants from Laboratory to Pilot Plant Scales for Coloured Wastewater Treatment. BioResources, 2018, 13, 2727-2747. | 1.0 | 26 |
| 42 | LABVIRTUAL—A platform for the teaching of chemical engineering: The use of interactive videos. Computer Applications in Engineering Education, 2018, 26, 1668-1676. | 3.4 | 15 |
| 43 | Producing New Flocculants Using Health-Friendly Ingredients In Water Treatment. , 2018, , . | | ο |
| 44 | Oxidative stress and genotoxicity of an organic and an inorganic nanomaterial to Eisenia andrei : SDS/DDAB nano-vesicles and titanium silicon oxide. Ecotoxicology and Environmental Safety, 2017, 140, 198-205. | 6.0 | 11 |
| 45 | Application of carbon nanotubes to immobilize heavy metals in contaminated soils. Journal of Nanoparticle Research, 2017, 19, 1. | 1.9 | 42 |
| 46 | Experimental Study and Computational Fluid Dynamics Modeling of Pulp Suspensions Flow in a Pipe. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, . | 1.5 | 5 |
| 47 | Environmentally friendly cellulose-based polyelectrolytes in wastewater treatment. Water Science and Technology, 2017, 76, 1490-1499. | 2.5 | 26 |
| 48 | A more eco-friendly synthesis of flocculants to treat wastewaters using health-friendly solvents. Colloid and Polymer Science, 2017, 295, 2123-2131. | 2.1 | 7 |
| 49 | Influence of the stabilizers on the toxicity of metallic nanomaterials in aquatic organisms and human cell lines. Science of the Total Environment, 2017, 607-608, 1264-1277. | 8.0 | 18 |
| 50 | Pre-treatment of industrial olive oil mill effluent using low dosage health-friendly cationic polyelectrolytes. Journal of Environmental Chemical Engineering, 2017, 5, 6053-6060. | 6.7 | 6 |
| 51 | Modelling of concentrated fibre suspension pipe flow with low-Reynolds-number k-ε turbulence models: new damping function. Nordic Pulp and Paper Research Journal, 2017, 32, 132-147. | 0.7 | 3 |
| 52 | Evaluation of on-line simulation tools to teach Chemical Processes. , 2017, , . | | 1 |
| 53 | Modelling of concentrated fibre suspension pipe flow with low-reynolds-number k-ε turbulence models: new damping function. Nordic Pulp and Paper Research Journal, 2017, 32, 133-148. | 0.7 | 0 |
| 54 | Evaluation of the Performance of Dual Polyelectrolyte Systems on the Re-Flocculation Ability of Calcium Carbonate Aggregates in Turbulent Environment. Polymers, 2016, 8, 174. | 4.5 | 4 |

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| 55 | Characterization of solid–liquid settling suspensions using Electrical Impedance Tomography: A comparison between numerical, experimental and visual information. Chemical Engineering Research and Design, 2016, 111, 223-242. | 5.6 | 20 |
| 56 | Ecotoxicity of titanium silicon oxide (TiSiO4) nanomaterial for terrestrial plants and soil invertebrate species. Ecotoxicology and Environmental Safety, 2016, 129, 291-301. | 6.0 | 34 |
| 57 | Validating dilute settling suspensions numerical data through MRI, UVP and EIT measurements. Flow Measurement and Instrumentation, 2016, 50, 35-48. | 2.0 | 10 |
| 58 | Nanotechnology Applied to Chemical Soil Stabilization. Procedia Engineering, 2016, 143, 1252-1259. | 1.2 | 32 |
| 59 | Numerical simulation of turbulent pulp flow of concentrated suspensions: Influence of the non-Newtonian properties of the pulp. Particulate Science and Technology, 2016, 34, 442-452. | 2.1 | 5 |
| 60 | Impact of organic nano-vesicles in soil: The case of sodium dodecyl sulphate/didodecyl dimethylammonium bromide. Science of the Total Environment, 2016, 547, 413-421. | 8.0 | 19 |
| 61 | A comparative study of magnetic resonance imaging, electrical impedance tomography and ultrasonic doppler velocimetry for semi-dilute fibre flow suspension characterisation. International Journal of Computational Methods and Experimental Measurements, 2016, 4, 165-175. | 0.2 | 2 |
| 62 | Settling Suspensions Flow Modelling: A Review. KONA Powder and Particle Journal, 2015, 32, 41-56. | 1.7 | 40 |
| 63 | Assessing the ecotoxicity of metal nano-oxides with potential for wastewater treatment. Environmental Science and Pollution Research, 2015, 22, 13212-13224. | 5.3 | 51 |
| 64 | CFD simulation of a turbulent fiber suspension flow – a modified near-wall treatment. Engineering Applications of Computational Fluid Mechanics, 2015, 9, 233-246. | 3.1 | 6 |
| 65 | Evaluating the Performance of the Mixture Model Coupled with High and Low Reynolds Turbulence Closures in the Numerical Description of Concentrated Solid-Liquid Flows of Settling Particles. Journal of Computational Multiphase Flows, 2015, 7, 241-257. | 0.8 | 10 |
| 66 | Surfactants for dispersion of carbon nanotubes applied in soil stabilization. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 480, 405-412. | 4.7 | 31 |
| 67 | Particle Distribution Studies in Highly Concentrated Solid-liquid Flows in Pipe Using the Mixture Model. Procedia Engineering, 2015, 102, 1016-1025. | 1.2 | 22 |
| 68 | Application of Different Low-Reynolds k-É> Turbulence Models to Model the Flow of Concentrated Pulp Suspensions in Pipes. Procedia Engineering, 2015, 102, 1326-1335. | 1.2 | 14 |
| 69 | Applying Multiwall Carbon Nanotubes for Soil Stabilization. Procedia Engineering, 2015, 102, 1766-1775. | 1.2 | 26 |
| 70 | Correlating Aggregates Structure with PEL Characteristics Using an Experimental Design Methodology. Procedia Engineering, 2015, 102, 1697-1706. | 1.2 | 2 |
| 71 | Evaluation of the Flocculation and Reflocculation Performance of a System with Calcium Carbonate, Cationic Acrylamide Co-polymers, and Bentonite Microparticles. Industrial & Engineering Chemistry Research, 2015, 54, 198-206. | 3.7 | 19 |
| 72 | Correlation between flocculation and adsorption of cationic polyacrylamides on precipitated calcium carbonate. Chemical Engineering Research and Design, 2015, 95, 298-306. | 5.6 | 21 |

| # | Article | IF | CITATIONS |
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| 73 | MODELING SOLID-LIQUID HOMOGENEOUS TURBULENT FLOW OF NEUTRALLY BUOYANT PARTICLES USING THE MIXTURE MODEL: A STUDY OF LENGTH SCALES AND CLOSURE COEFFICIENTS. Multiphase Science and Technology, 2014, 26, 199-227. | 0.5 | 2 |
| 74 | Online experimentation: Experiment@Portugal 2012. , 2014, , . | | 3 |
| 75 | How nanomaterials will interfere with the toxicity of copper?. Toxicology Letters, 2014, 229, S202. | 0.8 | Ο |
| 76 | Effects of Two Phosphonium-Type Ionic Liquids on the Rheological and Thermomechanical Properties of Emulsion Poly(vinyl chloride)-Based Formulations Plasticized with DINP and CITROFOL. Industrial & Engineering Chemistry Research, 2014, 53, 16061-16071. | 3.7 | 8 |
| 77 | Ecotoxicological Evaluation Of Titanium Silicon Oxide Nanoparticules With Terrestrial Species. Toxicology Letters, 2014, 229, S201. | 0.8 | 0 |
| 78 | The effects of acrylamide polyelectrolytes on aquatic organisms: Relating toxicity to chain architecture. Chemosphere, 2014, 112, 177-184. | 8.2 | 28 |
| 79 | An interactive video to demonstrate how to characterize nanoparticles. , 2013, , . | | Ο |
| 80 | Interactive simulators: A contribution to link theory and applications in the teaching of chemical processes. , 2013, , . | | 0 |
| 81 | Biochemical and metabolic effects of a short-term exposure to nanoparticles of titanium silicate in tadpoles of Pelophylax perezi (Seoane). Aquatic Toxicology, 2013, 128-129, 190-192. | 4.0 | 22 |
| 82 | An experimental design methodology to evaluate the importance of different parameters on flocculation by polyelectrolytes. Powder Technology, 2013, 238, 2-13. | 4.2 | 12 |
| 83 | Toxicity of organic and inorganic nanoparticles to four species of white-rot fungi. Science of the Total Environment, 2013, 458-460, 290-297. | 8.0 | 26 |
| 84 | Using video tools to teach nanoparticles characterization: Contents for a distance learning course. , 2013, , . | | 0 |
| 85 | On-line Tools to Teach Chemical Engineering: Exploring Synergies. International Journal of Engineering Pedagogy, 2013, 3, 26. | 1.1 | 1 |
| 86 | Multimedia Tools to Learn About Nanoparticles Characterization. International Journal of Online and Biomedical Engineering, 2013, 9, 77. | 1.4 | 0 |
| 87 | Talking about Teaching 2012. International Journal of Engineering Pedagogy, 2013, 3, 4. | 1.1 | 1 |
| 88 | On-line labs to teach Chemical engineering: Synergies between complementary tools. , 2012, , . | | 0 |
| 89 | Imaging Particulate Two-Phase Flow in Liquid Suspensions with Electric Impedance Tomography. Particulate Science and Technology, 2012, 30, 329-342. | 2.1 | 16 |
| 90 | Using a Web Platform Developed for the Teaching of Chemical Processes to Reach Secondary School Students. International Journal of Online and Biomedical Engineering, 2012, 8, 42. | 1.4 | 0 |

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|-----|--|------|-----------|
| 91 | Toxicity and genotoxicity of organic and inorganic nanoparticles to the bacteria Vibrio fischeri and Salmonella typhimurium. Ecotoxicology, 2012, 21, 637-648. | 2.4 | 64 |
| 92 | Impact of organic and inorganic nanomaterials in the soil microbial community structure. Science of the Total Environment, 2012, 424, 344-350. | 8.0 | 80 |
| 93 | A virtual platform to teach separation processes. Computer Applications in Engineering Education, 2012, 20, 175-186. | 3.4 | 22 |
| 94 | Modeling the Turbulent Flow of Pulp Suspensions. Industrial & Engineering Chemistry Research, 2011, 50, 9735-9742. | 3.7 | 13 |
| 95 | Electrical Tomography: a review of Configurations and Applications to Particulate Processes. KONA Powder and Particle Journal, 2011, 29, 67-80. | 1.7 | 35 |
| 96 | Screening evaluation of the ecotoxicity and genotoxicity of soils contaminated with organic and inorganic nanoparticles: The role of ageing. Journal of Hazardous Materials, 2011, 194, 345-354. | 12.4 | 36 |
| 97 | Solution viscosity and flocculation characteristics of linear polymeric flocculants in various media. Chemical Engineering Research and Design, 2011, 89, 1037-1044. | 5.6 | 10 |
| 98 | Using Light Scattering to Screen Polyelectrolytes (PEL) Performance in Flocculation. Polymers, 2011, 3, 915-927. | 4.5 | 18 |
| 99 | Epoxy/steel fiber composites—A simple model to predict the fiber sedimentation. Polymer Composites, 2010, 31, 1378-1386. | 4.6 | 5 |
| 100 | Rheology of poly(vinyl chloride) plastisol: Effect of a particular nonionic cosurfactant. Journal of Applied Polymer Science, 2010, 115, 599-607. | 2.6 | 5 |
| 101 | Flocculation by cationic polyelectrolytes: Relating efficiency with polyelectrolyte characteristics. Journal of Applied Polymer Science, 2010, 116, 3603-3612. | 2.6 | 11 |
| 102 | Modelling PCC flocculation by bridging mechanism using population balances: Effect of polymer characteristics on flocculation. Chemical Engineering Science, 2010, 65, 3798-3807. | 3.8 | 37 |
| 103 | Evaluation of Polyelectrolyte Performance on PCC Flocculation Using the LDS Technique. Particulate Science and Technology, 2010, 28, 426-441. | 2.1 | 4 |
| 104 | PVC paste rheology: Study of process dependencies. Journal of Applied Polymer Science, 2009, 112, 2809-2821. | 2.6 | 14 |
| 105 | LABVIRTUAL—A virtual platform to teach chemical processes. Education for Chemical Engineers, 2009, 4, e9-e19. | 4.8 | 37 |
| 106 | AN EXPERIMENTAL INVESTIGATION ON THE RELATIVE ROLES OF ENERGY INPUT, SURFACE TENSION, AND VISCOSITY ON THE BREAKUP OF A LIQUID DROP. Small Group Research, 2009, 19, 1193-1207. | 2.7 | 1 |
| 107 | Evaluation of flocs resistance and reflocculation capacity using the LDS technique. Powder Technology, 2008, 183, 231-238. | 4.2 | 42 |
| 108 | The use of LDS as a tool to evaluate flocculation mechanisms. Chemical Engineering and Processing: Process Intensification, 2008, 47, 1323-1332. | 3.6 | 86 |

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| 109 | Flocculation of PCC filler in papermaking: Influence of the particle characteristics. Chemical Engineering Research and Design, 2008, 86, 1155-1160. | 5.6 | 15 |
| 110 | Use of New Branched Cationic Polyacrylamides to Improve Retention and Drainage in Papermaking. Industrial & Engineering Chemistry Research, 2008, 47, 9370-9375. | 3.7 | 35 |
| 111 | Nanoparticle Characterization by PCS: The Analysis of Bimodal Distributions. Particulate Science and Technology, 2008, 26, 413-437. | 2.1 | 16 |
| 112 | Polyurethane-based microparticles: Formulation and influence of processes variables on its characteristics. Journal of Microencapsulation, 2008, 25, 154-169. | 2.8 | 31 |
| 113 | Effect of Water Cationic Content on Flocculation, Flocs Resistance and Reflocculation Capacity of PCC Induced by Polyelectrolytes. Industrial & Engineering Chemistry Research, 2008, 47, 6006-6013. | 3.7 | 35 |
| 114 | Applying LDS to Monitor Flocculation in Papermaking. Particulate Science and Technology, 2007, 25, 303-308. | 2.1 | 20 |
| 115 | Crystalline phase characterization of glass-ceramic glazes. Ceramics International, 2007, 33, 345-354. | 4.8 | 72 |
| 116 | The Influence of Particle Size Distribution on the Performance of Ceramic Particulate Suspensions. Particle and Particle Systems Characterization, 2007, 24, 101-107. | 2.3 | 3 |
| 117 | Effect of Aging on Glaze Suspensions Rheology. Journal of the American Ceramic Society, 2007, 90, 1693-1702. | 3.8 | 4 |
| 118 | Virtual Applications Using a Web Platform to Teach Chemical Engineering. Education for Chemical Engineers, 2007, 2, 20-28. | 4.8 | 20 |
| 119 | Correlating the Rheology of PVC-Based Pastes with Particle Characteristics. Particulate Science and Technology, 2005, 23, 361-375. | 2.1 | 15 |
| 120 | Rheology of Particulate Suspensions in Ceramic Industry. Particulate Science and Technology, 2005, 23, 145-157. | 2.1 | 7 |
| 121 | From Particle Size Analysis (PSA 1970) to Particulate Systems Analysis (PSA 2003). Chemical Engineering Research and Design, 2004, 82, 1533-1540. | 5.6 | 7 |
| 122 | Experimental Study of the Rheology of Fibre Suspensions. Chemie-Ingenieur-Technik, 2001, 73, 746-746. | 0.8 | 0 |
| 123 | Modelling slurry mixing tanks. Advanced Powder Technology, 1994, 5, 1-14. | 4.1 | 6 |
| 124 | A new approach to measuring solids concentration in mixing tanks. Advanced Powder Technology, 1994, 5, 15-24. | 4.1 | 3 |
| 125 | INFLUENCE OF SHAPE ON PARTICLE SIZE ANALYSIS. Particulate Science and Technology, 1993, 11, 199-206. | 2.1 | 9 |
| 126 | PRESSURE DROP FOR SOLID/LIQUID FLOW IN PIPES. Particulate Science and Technology, 1993, 11, 147-155. | 2.1 | 10 |

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| 127 | Mass Calibration of the Coulter Counter Model ZM. Particle and Particle Systems Characterization, 1991, 8, 294-296. | 2.3 | 2 |