# Amrita Agarwal

List of Publications by Year
in descending order

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|---|---|---|---|
| 75<br>papers | 2,515<br>citations | 201385<br>27<br>h-index | 205818<br>48<br>g-index |
| 75<br>all docs | 75<br>docs citations | 75<br>times ranked | 2075<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Process and product characteristics of refractance window dried Curcuma longa. Journal of Food Science, 2021, 86, 443-453. | 1.5 | 5 |
| 2 | Efficacy of s onicationâ€“microfiltration hybrid process for the production of clarified bitter gourd extracts. Journal of Food Process Engineering, 2021, 44, e13854. | 1.5 | 0 |
| 3 | Role of surfactant-induced chromia barriers on performance characteristics of Pd composite membranes. Chemical Engineering Communications, 2020, 207, 253-262. | 1.5 | 2 |
| 4 | Combinatorial optimality of functional groups, process parameters, and Pd(II) adsorptionâ€“desorption characteristics for commercial anion exchange resins-synthetic electroless plating systems. Environmental Science and Pollution Research, 2020, 27, 24614-24626. | 2.7 | 5 |
| 5 | Compositional synergy of poly-vinyl alcohol, starch, glycerol and citric acid concentrations during wound dressing films fabrication. International Journal of Biological Macromolecules, 2020, 146, 70-79. | 3.6 | 10 |
| 6 | Feasibility of Low-Cost Kaolinâ€“Based Ceramic Membranes for Organic Lagernaria siceraria Juice Production. Food and Bioprocess Technology, 2020, 13, 1009-1023. | 2.6 | 10 |
| 7 | Effect of pore former (saw dust) characteristics on the properties of subâ€micron range lowâ€cost ceramic membranes. International Journal of Ceramic Engineering & Science, 2020, 2, 243-253. | 0.5 | 7 |
| 8 | Optimality of poly-vinyl alcohol/starch/glycerol/citric acid in wound dressing applicable composite films. International Journal of Biological Macromolecules, 2020, 155, 260-272. | 3.6 | 25 |
| 9 | Combinatorial optimality of membrane morphology and feedstock during microfiltration of bottle gourd juice. Innovative Food Science and Emerging Technologies, 2020, 63, 102382. | 2.7 | 3 |
| 10 | Feasibility of poly-vinyl alcohol/starch/glycerol/citric acid composite films for wound dressing applications. International Journal of Biological Macromolecules, 2019, 131, 998-1007. | 3.6 | 62 |
| 11 | An Innovative System Architecture for Real-Time Monitoring and Alarming for Cutting Transport in Oil Well Drilling. , 2019, , . | | 1 |
| 12 | Role of EDTA on the Pd(II) adsorption characteristics of chitosan cross-linked 3-amino-1,2,4-triazole-5-thiol derivative from synthetic electroless plating solutions. International Journal of Biological Macromolecules, 2019, 127, 320-329. | 3.6 | 13 |
| 13 | Uses of Ceramic Membrane-Based Technology for the Clarification of Mosambi, Pineapple and Orange Juice. Materials Horizons, 2019, , 459-483. | 0.3 | 2 |
| 14 | Influence of emulsification, interfacial tension, wettability alteration and saponification on residual oil recovery by alkali flooding. Journal of Industrial and Engineering Chemistry, 2018, 59, 286-296. | 2.9 | 66 |
| 15 | Effects of interfacial tension, oil layer break time, emulsification and wettability alteration on oil recovery for carbonate reservoirs. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 559, 92-103. | 2.3 | 40 |
| 16 | Role of protonation and functional groups in Pd(II) recovery and reuse characteristics of commercial anion exchange resin-synthetic electroless plating solution systems. Journal of Water Process Engineering, 2018, 22, 227-238. | 2.6 | 18 |
| 17 | Optimal fabrication of carbonate free kaolin based low cost ceramic membranes using mixture model response surface methodology. Applied Clay Science, 2018, 162, 101-112. | 2.6 | 14 |
| 18 | Preparation and characterization of hydrothermally engineered TiO2-fly ash composite membrane. Frontiers of Chemical Science and Engineering, 2017, 11, 266-279. | 2.3 | 11 |

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|---|---|---|---|
| 19 | Identification of optimal rate-enhanced silver ELP processes for silverâ€“ceramic composite membrane fabrication. Materials and Manufacturing Processes, 2017, 32, 450-457. | 2.7 | 1 |
| 20 | Global optimality of RO seawater desalination networks with permeate reprocessing and recycle. Separation Science and Technology, 2017, 52, 1225-1239. | 1.3 | 0 |
| 21 | Preparation, characterization, and performance evaluation of LTA zeoliteâ€“ceramic composite membrane by separation of BSA from aqueous solution. Separation Science and Technology, 2017, 52, 767-777. | 1.3 | 8 |
| 22 | Investigation on Pd (II) removal and recovery characteristics of chitosan from electroless plating solutions. Journal of Water Process Engineering, 2017, 19, 8-17. | 2.6 | 13 |
| 23 | Effect of mineralogy on the adsorption characteristics of surfactantâ€"Reservoir rock system. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 531, 121-132. | 2.3 | 60 |
| 24 | Pd(II) adsorption characteristics of glutaraldehyde cross-linked chitosan copolymer resin. International Journal of Biological Macromolecules, 2017, 94, 72-84. | 3.6 | 112 |
| 25 | Efficacy of reducing agent contacting pattern in Ag-SOEP electroless plating baths. Surface Engineering, 2017, 33, 383-388. | 1.1 | 1 |
| 26 | Global optimization of MSF seawater desalination processes. Desalination, 2016, 394, 30-43. | 4.0 | 42 |
| 27 | Global optimality of hybrid MSF-RO seawater desalination processes. Desalination, 2016, 400, 47-59. | 4.0 | 9 |
| 28 | Fly ash based ceramic microfiltration membranes for oil-water emulsion treatment: Parametric optimization using response surface methodology. Journal of Water Process Engineering, 2016, 13, 27-43. | 2.6 | 73 |
| 29 | Combinatorial Electroless Plating Characteristics for Dense Pdâ€“PSS Composite Membrane Fabrication. Materials and Manufacturing Processes, 2016, 31, 6-11. | 2.7 | 9 |
| 30 | Efficacy of Palladium Solution Concentration on Electroless Fabrication of Dense Metal Ceramic Composite Membranes Coupled with Surfactant and Sonication. Materials and Manufacturing Processes, 2016, 31, 18-23. | 2.7 | 5 |
| 31 | Efficacy of Novel Electroless Plating Process for Dense Pd/Cr<sub>2</sub>O<sub>3</sub>/PSS Membrane Fabrication. Materials and Manufacturing Processes, 2016, 31, 1-5. | 2.7 | 11 |
| 32 | Rate enhanced electroless fabrication of nickel ceramic composite membranes. Surface Engineering, 2015, 31, 221-225. | 1.1 | 3 |
| 33 | Effect of Pd concentration on electroless dense Pd-PSS membrane fabrication. Surface Engineering, 2015, 31, 209-213. | 1.1 | 3 |
| 34 | Microfiltration of Synthetic Bacteria Solution Using Low Cost Ceramic Membranes. Separation Science and Technology, 2015, 50, 121-135. | 1.3 | 15 |
| 35 | Efficacy of reducing agent and surfactant contacting pattern on the performance characteristics of nickel electroless plating baths coupled with and without ultrasound. Ultrasonics Sonochemistry, 2014, 21, 1382-1391. | 3.8 | 14 |
| 36 | Equilibrium and Kinetic Studies of Ni (II) Adsorption using Pineapple and Bamboo Stem Based Adsorbents. Separation Science and Technology, 2014, 49, 533-544. | 1.3 | 29 |

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|---|---|---|---|
| 37 | A novel method of reducing agent contacting pattern for metal ceramic composite membrane fabrication. Applied Surface Science, 2014, 320, 52-59. | 3.1 | 2 |
| 38 | Cross flow microfiltration of oilâ€“water emulsions using kaolin based low cost ceramic membranes. Desalination, 2014, 341, 61-71. | 4.0 | 85 |
| 39 | Microfiltration of oilâ€“water emulsions using low cost ceramic membranes prepared with the uniaxial dry compaction method. Ceramics International, 2014, 40, 1155-1164. | 2.3 | 31 |
| 40 | Preparation and characterization of low cost ceramic membranes for mosambi juice clarification. Desalination, 2013, 317, 32-40. | 4.0 | 97 |
| 41 | LabVIEW based e-learning portal for virtual mass transfer operations laboratory. CSI Transactions on ICT, 2013, 1, 75-90. | 0.7 | 3 |
| 42 | Preparation, optimization and characterization of low cost ceramics for the fabrication of dense nickel composite membranes. Ceramics International, 2013, 39, 7709-7716. | 2.3 | 11 |
| 43 | Cross-flow microfiltration of oil-in-water emulsions using low cost ceramic membranes. Desalination, 2013, 320, 86-95. | 4.0 | 108 |
| 44 | Performance of Low Cost Ceramic Microfiltration Membranes for the Treatment of Oil-in-water Emulsions. Separation Science and Technology, 2013, 48, 849-858. | 1.3 | 23 |
| 45 | Surface engineering characteristics of ultrasound assisted hypophosphite electroless plating baths. Surface Engineering, 2013, 29, 489-494. | 1.1 | 8 |
| 46 | Effect of surfactants on performance of electroless plating baths for nickelâ€“ceramic composite membrane fabrication. Surface Engineering, 2012, 28, 44-48. | 1.1 | 17 |
| 47 | Effect of Ultrasound on the Performance of Nickel Hydrazine Electroless Plating Baths. Materials and Manufacturing Processes, 2012, 27, 201-206. | 2.7 | 16 |
| 48 | CLARIFICATION OF ORANGE JUICE USING CERAMIC MEMBRANE AND EVALUATION OF FOULING MECHANISM. Journal of Food Process Engineering, 2012, 35, 403-423. | 1.5 | 18 |
| 49 | Performance characteristics of hydrothermal and sonication assisted electroless plating baths for nickelâ€“ceramic composite membrane fabrication. Desalination, 2012, 284, 77-85. | 4.0 | 12 |
| 50 | Manufacture of Nickel-Ceramic Composite Membranes in Agitated Electroless Plating Baths. Materials and Manufacturing Processes, 2011, 26, 862-867. | 2.7 | 30 |
| 51 | An Inverse Analysis for Parameter Estimation Applied to a Non-Fourier Conductionâ€“Radiation Problem. Heat Transfer Engineering, 2011, 32, 455-466. | 1.2 | 63 |
| 52 | Application of a Particle Swarm Algorithm for Parameter Retrieval in a Transient Conduction-Radiation Problem. Numerical Heat Transfer; Part A: Applications, 2011, 59, 672-692. | 1.2 | 32 |
| 53 | Influence of Sintering Temperature on the Properties of Porous Ceramic Support Prepared by Uniaxial Dry Compaction Method Using Low-Cost Raw Materials for Membrane Applications. Separation Science and Technology, 2011, 46, 1241-1249. | 1.3 | 51 |
| 54 | Identification of optimal membrane morphological parameters during microfiltration of mosambi juice using low cost ceramic membranes. LWT - Food Science and Technology, 2011, 44, 214-223. | 2.5 | 31 |

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|---|---|---|---|
| 55 | Effect of surface roughness and mass transfer enhancement on the performance characteristics of nickel-hypophosphite electroless plating baths for metalâ€“ceramic composite membrane fabrication. Chemical Engineering Research and Design, 2011, 89, 2485-2494. | 2.7 | 17 |
| 56 | Effect of process parameters on electroless plating and nickel-ceramic composite membrane characteristics. Desalination, 2011, 268, 195-203. | 4.0 | 71 |
| 57 | Nickel-ceramic composite membranes: Optimization of hydrazine based electroless plating process parameters. Desalination, 2011, 275, 243-251. | 4.0 | 9 |
| 58 | Fabrication and properties of low cost ceramic microfiltration membranes for separation of oil and bacteria from its solution. Journal of Membrane Science, 2011, 379, 154-163. | 4.1 | 178 |
| 59 | Combinatorial performance characteristics of agitated nickel hypophosphite electroless plating baths. Journal of Materials Processing Technology, 2011, 211, 1488-1499. | 3.1 | 22 |
| 60 | Economic feasibility of silica and palladium composite membranes for industrial dehydrogenation reactions. Chemical Engineering Research and Design, 2010, 88, 1088-1101. | 2.7 | 26 |
| 61 | Optimization of crude distillation system using aspen plus: Effect of binary feed selection on grass-root design. Chemical Engineering Research and Design, 2010, 88, 121-134. | 2.7 | 54 |
| 62 | Treatment of oily wastewater using low cost ceramic membrane: Comparative assessment of pore blocking and artificial neural network models. Chemical Engineering Research and Design, 2010, 88, 881-892. | 2.7 | 140 |
| 63 | Microfiltration of stable oil-in-water emulsions using kaolinbased ceramic membrane and evaluation of fouling mechanism. Desalination and Water Treatment, 2010, 22, 133-145. | 1.0 | 7 |
| 64 | Preparation and characterization of inexpensive submicron range inorganic microfiltration membranes. Membrane Water Treatment, 2010, 1, 121-137. | 0.5 | 6 |
| 65 | Influence of varying fiber lengths on mechanical, thermal, and morphological properties of MAâ€‹gâ€PP compatibilized and chemically modified short pineapple leaf fiber reinforced polypropylene composites. Journal of Applied Polymer Science, 2009, 113, 3750-3756. | 1.3 | 38 |
| 66 | Effects of dip coating parameters on the morphology and transport properties of cellulose acetateâ€“ceramic composite membranes. Journal of Membrane Science, 2009, 330, 246-258. | 4.1 | 65 |
| 67 | Microfiltration of mosambi juice using low cost ceramic membrane. Journal of Food Engineering, 2009, 95, 597-605. | 2.7 | 79 |
| 68 | Revamp study of crude distillation unit heat exchanger network: Energy integration potential of delayed coking unit free hot streams. Applied Thermal Engineering, 2009, 29, 2271-2279. | 3.0 | 19 |
| 69 | Treatment of Oily Waste Water Using Low-Cost Ceramic Membrane: Flux Decline Mechanism and Economic Feasibility. Separation Science and Technology, 2009, 44, 2840-2869. | 1.3 | 72 |
| 70 | Optimization of Heat Fluxes on the Heater and the Design Surfaces of a Radiating-Conducting Medium. Numerical Heat Transfer; Part A: Applications, 2009, 56, 846-860. | 1.2 | 18 |
| 71 | Lattice Boltzmann Method Applied to the Analysis of Transient Conduction-Radiation Problems in a Cylindrical Medium. Numerical Heat Transfer; Part A: Applications, 2009, 56, 42-59. | 1.2 | 35 |
| 72 | Preparation and characterization of low cost ceramic membranes for micro-filtration applications. Applied Clay Science, 2008, 42, 102-110. | 2.6 | 234 |

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|---|---|---|---|
| 73 | Simultaneous Reconstruction of Thermal Field and Retrieval of Parameters in a Cylindrical Enclosure. Numerical Heat Transfer; Part A: Applications, 2008, 54, 983-998. | 1.2 | 12 |
| 74 | Multiparameter Estimation in a Transient Conduction-Radiation Problem Using the Lattice Boltzmann Method and the Finite-Volume Method Coupled with the Genetic Algorithms. Numerical Heat Transfer; Part A: Applications, 2008, 53, 1321-1338. | 1.2 | 52 |
| 75 | On the simultaneous optimization of pressure and layout for gas permeation membrane systems. Journal of Membrane Science, 2006, 280, 832-848. | 4.1 | 21 |