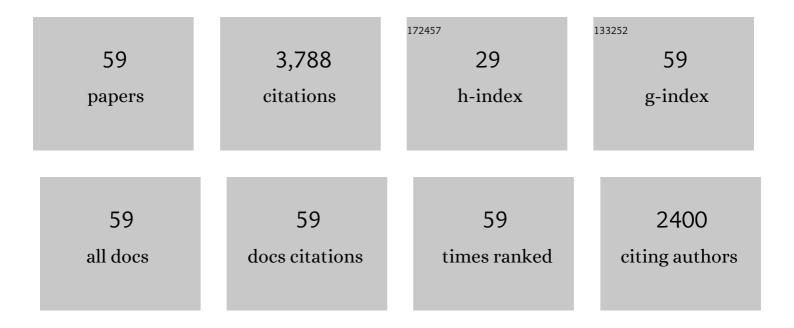
Scott A Bradford

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Novel analytical expressions for determining van der Waals interaction between a particle and air–water interface: Unexpected stronger van der Waals force than capillary force. Journal of Colloid and Interface Science, 2022, 610, 982-993. | 9.4 | 6 |
| 2 | Significance of Non-DLVO Interactions on the Co-Transport of Functionalized Multiwalled Carbon Nanotubes and Soil Nanoparticles in Porous Media. Environmental Science & Technology, 2022, 56, 10668-10680. | 10.0 | 10 |
| 3 | Micro- and nanoplastics retention in porous media exhibits different dependence on grain surface roughness and clay coating with particle size. Water Research, 2022, 221, 118717. | 11.3 | 15 |
| 4 | Comparison of recharge from drywells and infiltration basins: A modeling study. Journal of Hydrology, 2021, 594, 125720. | 5.4 | 8 |
| 5 | Colloid Interaction Energies for Surfaces with Steric Effects and Incompressible and/or Compressible Roughness. Langmuir, 2021, 37, 1501-1510. | 3.5 | 20 |
| 6 | Impact of phosphate adsorption on the mobility of PANIâ€supported nano zeroâ€valent iron. Vadose Zone Journal, 2021, 20, e20091. | 2.2 | 7 |
| 7 | Why Are Viruses Spiked?. MSphere, 2021, 6, . | 2.9 | 5 |
| 8 | Non-monotonic contribution of nonionic surfactant on the retention of functionalized multi-walled carbon nanotubes in porous media. Journal of Hazardous Materials, 2021, 407, 124874. | 12.4 | 6 |
| 9 | Evidence on enhanced transport and release of silver nanoparticles by colloids in soil due to modification of grain surface morphology and co-transport. Environmental Pollution, 2021, 276, 116661. | 7.5 | 18 |
| 10 | Virus transport from drywells under constant head conditions: AÂmodeling study. Water Research, 2021, 197, 117040. | 11.3 | 7 |
| 11 | Evidence for the critical role of nanoscale surface roughness on the retention and release of silver nanoparticles in porous media. Environmental Pollution, 2020, 258, 113803. | 7.5 | 29 |
| 12 | Synergies of surface roughness and hydration on colloid detachment in saturated porous media: Column and atomic force microscopy studies. Water Research, 2020, 183, 116068. | 11.3 | 21 |
| 13 | Shape and orientation of bare silica particles influence their deposition under intermediate ionic strength: A study with QCM–D and DLVO theory. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 599, 124921. | 4.7 | 26 |
| 14 | Particle–bubble interaction energies for particles with physical and chemical heterogeneities. Minerals Engineering, 2020, 155, 106472. | 4.3 | 32 |
| 15 | Release of colloidal biochar during transient chemical conditions: The humic acid effect. Environmental Pollution, 2020, 260, 114068. | 7.5 | 11 |
| 16 | Groundwater recharge from drywells under constant head conditions. Journal of Hydrology, 2020, 583, 124569. | 5.4 | 19 |
| 17 | Interaction energies for hollow and solid cylinders: Role of aspect ratio and particle orientation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 580, 123781. | 4.7 | 20 |
| 18 | Transport and retention of engineered silver nanoparticles in carbonate-rich sediments in the presence and absence of soil organic matter. Environmental Pollution, 2019, 255, 113124. | 7.5 | 15 |

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|----|---|------|-----------|
| 19 | Nanobubble Retention in Saturated Porous Media under Repulsive van der Waals and Electrostatic Conditions. Langmuir, 2019, 35, 6853-6860. | 3.5 | 15 |
| 20 | Transport of biochar colloids in saturated porous media in the presence of humic substances or proteins. Environmental Pollution, 2019, 246, 855-863. | 7.5 | 55 |
| 21 | Drywell infiltration and hydraulic properties in heterogeneous soil profiles. Journal of Hydrology, 2019, 570, 598-611. | 5.4 | 27 |
| 22 | Mechanisms of graphene oxide aggregation, retention, and release in quartz sand. Science of the Total Environment, 2019, 656, 70-79. | 8.0 | 30 |
| 23 | Co-transport of multi-walled carbon nanotubes and sodium dodecylbenzenesulfonate in chemically heterogeneous porous media. Environmental Pollution, 2019, 247, 907-916. | 7.5 | 28 |
| 24 | Evaluating drywells for stormwater management and enhanced aquifer recharge. Advances in Water Resources, 2018, 116, 167-177. | 3.8 | 31 |
| 25 | Transport and retention of surfactant- and polymer-stabilized engineered silver nanoparticles in silicate-dominated aquifer material. Environmental Pollution, 2018, 236, 195-207. | 7.5 | 23 |
| 26 | Physicochemical Factors That Favor Conjugation of an Antibiotic Resistant Plasmid in Non-growing Bacterial Cultures in the Absence and Presence of Antibiotics. Frontiers in Microbiology, 2018, 9, 2122. | 3.5 | 23 |
| 27 | Minimizing Virus Transport in Porous Media by Optimizing Solid Phase Inactivation. Journal of Environmental Quality, 2018, 47, 1058-1067. | 2.0 | 9 |
| 28 | DLVO Interaction Energies for Hollow Particles: The Filling Matters. Langmuir, 2018, 34, 12764-12775. | 3.5 | 9 |
| 29 | Analysis of stability behavior of carbon black nanoparticles in ecotoxicological media: Hydrophobic and steric effects. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 554, 306-316. | 4.7 | 38 |
| 30 | Comparison of Types and Amounts of Nanoscale Heterogeneity on Bacteria Retention. Frontiers in Environmental Science, 2018, 6, . | 3.3 | 32 |
| 31 | Can nanoscale surface charge heterogeneity really explain colloid detachment from primary minima upon reduction of solution ionic strength?. Journal of Nanoparticle Research, 2018, 20, 1. | 1.9 | 53 |
| 32 | Unraveling the complexities of the velocity dependency of E. coli retention and release parameters in saturated porous media. Science of the Total Environment, 2017, 603-604, 406-415. | 8.0 | 19 |
| 33 | Critical Role of Preferential Flow in Field cale Pathogen Transport and Retention. Vadose Zone Journal, 2017, 16, 1-13. | 2.2 | 12 |
| 34 | Roles of cation valance and exchange on the retention and colloid-facilitated transport of functionalized multi-walled carbon nanotubes in a natural soil. Water Research, 2017, 109, 358-366. | 11.3 | 49 |
| 35 | Co-transport of chlordecone and sulfadiazine in the presence of functionalized multi-walled carbon nanotubes in soils. Environmental Pollution, 2017, 221, 470-479. | 7.5 | 31 |
| 36 | Transport and fate of viruses in sediment and stormwater from a Managed Aquifer Recharge site. Journal of Hydrology, 2017, 555, 724-735. | 5.4 | 21 |

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|----|--|------|-----------|
| 37 | DLVO Interaction Energies between Hollow Spherical Particles and Collector Surfaces. Langmuir, 2017, 33, 10455-10467. | 3.5 | 21 |
| 38 | Contributions of Nanoscale Roughness to Anomalous Colloid Retention and Stability Behavior. Langmuir, 2017, 33, 10094-10105. | 3.5 | 94 |
| 39 | Do Goethite Surfaces Really Control the Transport and Retention of Multi-Walled Carbon Nanotubes in Chemically Heterogeneous Porous Media?. Environmental Science & Technology, 2016, 50, 12713-12721. | 10.0 | 47 |
| 40 | Transport, retention, and long-term release behavior of ZnO nanoparticle aggregates in saturated quartz sand: Role of solution pH and biofilm coating. Water Research, 2016, 90, 247-257. | 11.3 | 72 |
| 41 | Critical role of surface roughness on colloid retention and release in porous media. Water Research, 2016, 88, 274-284. | 11.3 | 141 |
| 42 | Equilibrium and kinetic models for colloid release under transient solution chemistry conditions. Journal of Contaminant Hydrology, 2015, 181, 141-152. | 3.3 | 53 |
| 43 | Determining Parameters and Mechanisms of Colloid Retention and Release in Porous Media. Langmuir, 2015, 31, 12096-12105. | 3.5 | 85 |
| 44 | Release of Quantum Dot Nanoparticles in Porous Media: Role of Cation Exchange and Aging Time. Environmental Science & Technology, 2013, 47, 11528-11536. | 10.0 | 65 |
| 45 | A Theoretical Analysis of Colloid Attachment and Straining in Chemically Heterogeneous Porous Media. Langmuir, 2013, 29, 6944-6952. | 3.5 | 138 |
| 46 | Colloid Interaction Energies for Physically and Chemically Heterogeneous Porous Media. Langmuir, 2013, 29, 3668-3676. | 3.5 | 129 |
| 47 | Transport and Fate of Microbial Pathogens in Agricultural Settings. Critical Reviews in Environmental Science and Technology, 2013, 43, 775-893. | 12.8 | 197 |
| 48 | Modeling colloid and microorganism transport and release with transients in solution ionic strength. Water Resources Research, 2012, 48, . | 4.2 | 73 |
| 49 | Colloid Adhesive Parameters for Chemically Heterogeneous Porous Media. Langmuir, 2012, 28, 13643-13651. | 3.5 | 69 |
| 50 | Impacts of bridging complexation on the transport of surface-modified nanoparticles in saturated sand. Journal of Contaminant Hydrology, 2012, 136-137, 86-95. | 3.3 | 70 |
| 51 | Pore cale Simulations to Determine the Applied Hydrodynamic Torque and Colloid Immobilization. Vadose Zone Journal, 2011, 10, 252-261. | 2.2 | 81 |
| 52 | Coupled factors influencing the transport and retention of Cryptosporidium parvum oocysts in saturated porous media. Water Research, 2010, 44, 1213-1223. | 11.3 | 52 |
| 53 | <i>Escherichia coli</i> O157:H7 Transport in Saturated Porous Media: Role of Solution Chemistry and Surface Macromolecules. Environmental Science & amp; Technology, 2009, 43, 4340-4347. | 10.0 | 147 |
| 54 | Coupled Factors Influencing Concentration-Dependent Colloid Transport and Retention in Saturated Porous Media. Environmental Science & Technology, 2009, 43, 6996-7002. | 10.0 | 140 |

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|----|---|-----|-----------|
| 55 | Reply to comment by William P. Johnson et al. on "Transport and fate of bacteria in porous media: Coupled effects of chemical conditions and pore space geometry― Water Resources Research, 2009, 45, . | 4.2 | 8 |
| 56 | Transport and fate of bacteria in porous media: Coupled effects of chemical conditions and pore space geometry. Water Resources Research, 2008, 44, . | 4.2 | 205 |
| 57 | Colloid Transport and Retention in Unsaturated Porous Media: A Review of Interfaceâ€, Collectorâ€, and Poreâ€Scale Processes and Models. Vadose Zone Journal, 2008, 7, 667-681. | 2.2 | 286 |
| 58 | Resolving the Coupled Effects of Hydrodynamics and DLVO Forces on Colloid Attachment in Porous Media. Langmuir, 2007, 23, 9652-9660. | 3.5 | 236 |
| 59 | Physical factors affecting the transport and fate of colloids in saturated porous media. Water Resources Research, 2002, 38, 63-1-63-12. | 4.2 | 599 |