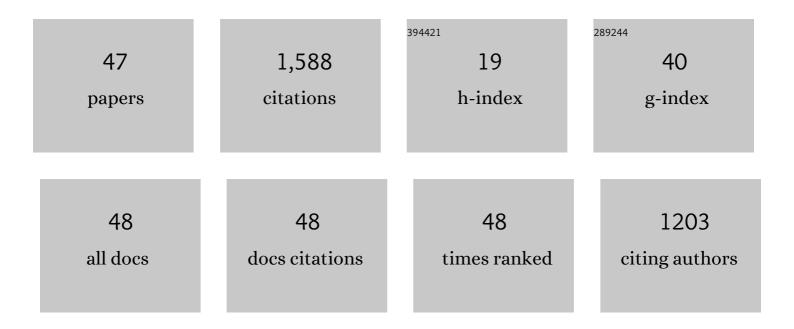
Edith M Sevick

List of Publications by Year in descending order

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FDITH M SEVICE

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Triangular cyclic rotaxanes: Size, fluctuations, and switching properties. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9367-9372. | 7.1 | 5 |
| 2 | Rotaxane liquid crystals with variable length: The effect of switching efficiency on the isotropic-nematic transition. Journal of Chemical Physics, 2018, 148, 134905. | 3.0 | 3 |
| 3 | Mechanical Conformers of Keyring Catenanes. Journal of Physical Chemistry A, 2018, 122, 8923-8930. | 2.5 | 1 |
| 4 | A Two‧troke, Two ylinder Piston Rotaxane Motor. ChemPhysChem, 2016, 17, 1927-1933. | 2.1 | 4 |
| 5 | Isotropic and nematic liquid crystalline phases of adaptive rotaxanes. Journal of Chemical Physics, 2016, 144, 124901. | 3.0 | 6 |
| 6 | Equilibrium binding energies from fluctuation theorems and force spectroscopy simulations. Soft Matter, 2016, 12, 9803-9820. | 2.7 | 2 |
| 7 | Threading a Ring or Tube onto a Rod: An Entropically Rare Event. Nano Letters, 2016, 16, 671-674. | 9.1 | 7 |
| 8 | Fast switching from isotropic liquids to nematic liquid crystals: rotaxanes as smart fluids. Chemical Communications, 2015, 51, 16541-16544. | 4.1 | 7 |
| 9 | Conformational isomers of linear rotaxanes. Journal of Chemical Physics, 2014, 141, 114904. | 3.0 | 9 |
| 10 | Mobile Rings on a Polyrotaxane Lead to a Yield Force. Macromolecules, 2013, 46, 4191-4197. | 4.8 | 34 |
| 11 | A Piston-Rotaxane with Two Potential Stripes: Force Transitions and Yield Stresses. Molecules, 2013, 18, 13398-13409. | 3.8 | 8 |
| 12 | A Piston-Rotaxane with Two Potential Stripes: Force Transitions and Yield Stresses. Molecules, 2013, 18, 13398-13409. | 3.8 | 4 |
| 13 | Dynamics of molecular shock-absorbers: energy dissipation and the Fluctuation Theorem. Soft Matter, 2011, 7, 5739. | 2.7 | 8 |
| 14 | Piston Rotaxane Monolayers: Shear Swelling and Nanovalve Behavior. Macromolecules, 2010, 43, 7244-7249. | 4.8 | 11 |
| 15 | A Model of a Homopolymer Brush as a Switch. Macromolecules, 2010, 43, 2042-2047. | 4.8 | 0 |
| 16 | Piston-Rotaxanes as Molecular Shock Absorbers. Langmuir, 2010, 26, 5864-5868. | 3.5 | 30 |
| 17 | Hydrodynamic Mobility of an Optically Trapped Colloidal Particle near Fluid-Fluid Interfaces. Physical Review Letters, 2009, 103, 248303. | 7.8 | 42 |
| 18 | Fluctuation Theorems. Annual Review of Physical Chemistry, 2008, 59, 603-633. | 10.8 | 218 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | A unified description of two theorems in non-equilibrium statistical mechanics: The fluctuation theorem and the work relation. Europhysics Letters, 2005, 72, 726-732. | 2.0 | 35 |
| 20 | Demonstration of the steady-state fluctuation theorem from a single trajectory. Journal of Physics Condensed Matter, 2005, 17, S3239-S3244. | 1.8 | 18 |
| 21 | The Kawasaki identity and the Fluctuation Theorem. Journal of Chemical Physics, 2004, 121, 8179. | 3.0 | 24 |
| 22 | Fluctuations and Irreversibility: An Experimental Demonstration of a Second-Law-Like Theorem Using a Colloidal Particle Held in an Optical Trap. Physical Review Letters, 2004, 92, 140601. | 7.8 | 223 |
| 23 | AFM Evidence of Rayleigh Instability in Single Polymer Chains. Langmuir, 2002, 18, 2174-2182. | 3.5 | 105 |
| 24 | Compression and Escape of Copolymers of Adsorbing and Nonadsorbing Blocks. Macromolecules, 2001, 34, 1908-1916. | 4.8 | 10 |
| 25 | Long-lived states in electrophoresis: Collision of a polymer chain with two or more obstacles. Europhysics Letters, 2001, 56, 529-535. | 2.0 | 18 |
| 26 | Compression and Escape of a Star Polymer. Macromolecules, 2000, 33, 5743-5746. | 4.8 | 15 |
| 27 | Compression of a polymer chain by a small obstacle: The effect of fluctuations on the escape transition. Physical Review E, 1999, 60, 6906-6918. | 2.1 | 25 |
| 28 | Polymers Grafted onto Strongly Adsorbing Surfaces in Poor Solvents: Stretching, Fission, Phase Separation, and Globular Micelles in 2D. Physical Review Letters, 1999, 82, 2701-2704. | 7.8 | 17 |
| 29 | Collision of a Field-Driven Polymer with a Finite-Sized Obstacle:Â A Brownian Dynamics Simulation. Macromolecules, 1999, 32, 892-899. | 4.8 | 39 |
| 30 | The Detachment of a Polymer Chain from a Weakly Adsorbing Surface Using an AFM Tip. Langmuir, 1999, 15, 3886-3892. | 3.5 | 83 |
| 31 | A Polymer End-Tethered to a Potential Stripe:Â A Simple Example of an Escape Transition. Macromolecules, 1999, 32, 6841-6846. | 4.8 | 21 |
| 32 | Compression-Induced Phase Transitions in Water-Soluble Polymer Brushes:  The n-Cluster Model. Macromolecules, 1998, 31, 3361-3367. | 4.8 | 16 |
| 33 | Linear Self-Assembled Systems and the Effect of Capping Defects. Langmuir, 1998, 14, 3137-3139. | 3.5 | 10 |
| 34 | End-Tethered Polymer Chains under AFM Tips:  Compression and Escape in Theta Solvents. Langmuir, 1997, 13, 5691-5696. | 3.5 | 55 |
| 35 | Shear Swelling of Polymer Brushes Grafted onto Convex and Concave Surfaces. Macromolecules, 1996, 29, 6952-6958. | 4.8 | 44 |
| 36 | Anomalous height increases upon bending for an Alexander–de Gennes polymer brush. Journal of Chemical Physics, 1996, 105, 9334-9338. | 3.0 | 2 |

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|----|--|-----|-----------|
| 37 | Collision of a Field-Driven Polymer with a Post: Electrophoresis in Microlithographic Arrays. Physical Review Letters, 1996, 76, 2595-2598. | 7.8 | 46 |
| 38 | Polymer Brush-Lined Membranes for Flow and Filtration Control. Materials Research Society Symposia Proceedings, 1995, 385, 213. | 0.1 | 1 |
| 39 | Coil-Stretch Transitions for Grafted Polymers in Spatially Varying Flows. Europhysics Letters, 1995, 31, 357-362. | 2.0 | 8 |
| 40 | Motion of a polyelectrolyte chain hooked around a post. Physical Review E, 1994, 50, R3357-R3360. | 2.1 | 34 |
| 41 | Polymer Brushes as Pressure-Sensitive Automated Microvalves. Macromolecules, 1994, 27, 5285-5290. | 4.8 | 43 |
| 42 | A chain of states method for investigating infrequent event processes occurring in multistate, multidimensional systems. Journal of Chemical Physics, 1993, 98, 3196-3212. | 3.0 | 75 |
| 43 | Cluster integrals for square well particles: Application to percolation. Journal of Chemical Physics, 1991, 94, 3070-3082. | 3.0 | 13 |
| 44 | Dilute heteroaggregation: A description of critical gelation using a cluster—cluster aggregation model. Journal of Colloid and Interface Science, 1991, 144, 561-570. | 9.4 | 10 |
| 45 | Morphology and transport using the Ising lattice as a morphology description. Chemical Engineering Science, 1989, 44, 21-32. | 3.8 | 3 |
| 46 | Monte Carlo calculations of cluster statistics in continuum models of composite morphology. Journal of Chemical Physics, 1988, 88, 1198-1206. | 3.0 | 179 |
| 47 | Clustering and percolation in assemblies of anisotropic particles: Perturbation theory and Monte Carlo simulation. Physical Review A, 1988, 38, 5376-5383. | 2.5 | 16 |