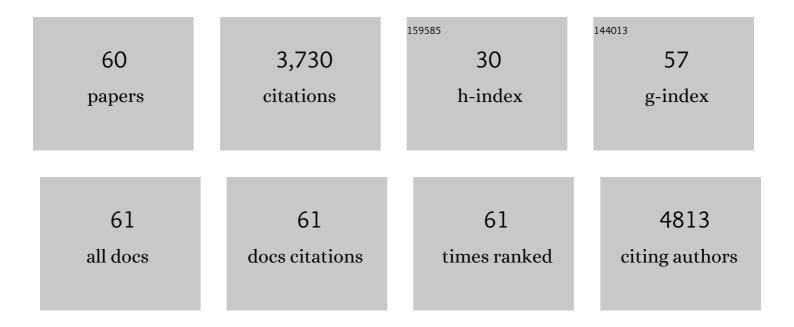
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9494936/publications.pdf Version: 2024-02-01



| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Controlling toughness of polymer-grafted nanoparticle composites for impact mitigation. Soft<br>Matter, 2022, 18, 256-261.   | 2.7 | 10        |
| 2  | Tuning the mechanical impedance of disordered networks for impact mitigation. Soft Matter, 2022, 18, 2039-2045.  | 2.7 | 3         |
| 3  | Quantifying the â€~press and peel' removal of particulates using elastomers and gels. Journal of<br>Cultural Heritage, 2021, 48, 236-243.                              | 3.3 | 8         |
| 4  | Why Enhanced Subnanosecond Relaxations Are Important for Toughness in Polymer Glasses.<br>Macromolecules, 2021, 54, 2518-2528.   | 4.8 | 12        |
| 5  | Supersonic Impact Response of Polymer Thin Films via Large-Scale Atomistic Simulations. Nano Letters, 2021, 21, 5991-5997.   | 9.1 | 10        |
| 6  | Importance of Sub-Nanosecond Fluctuations on the Toughness of Polycarbonate Glasses.<br>Macromolecules, 2020, 53, 6672-6681.   | 4.8 | 12        |
| 7  | Cutting to measure the elasticity and fracture of soft gels. Soft Matter, 2020, 16, 8826-8831.   | 2.7 | 5         |
| 8  | Using microprojectiles to study the ballistic limit of polymer thin films. Soft Matter, 2020, 16, 3886-3890.   | 2.7 | 14        |
| 9  | Insights into the Water Transport Mechanism in Polymeric Membranes from Neutron Scattering.<br>Macromolecules, 2020, 53, 1443-1450.                                    | 4.8 | 30        |
| 10 | Entanglement Density-Dependent Energy Absorption of Polycarbonate Films via Supersonic Fracture.<br>ACS Macro Letters, 2019, 8, 806-811.                               | 4.8 | 36        |
| 11 | Characterizing salt permeability in polyamide desalination membranes using electrochemical impedance spectroscopy. Journal of Membrane Science, 2019, 583, 248-257.    | 8.2 | 35        |
| 12 | Corona Treatment for Nanotransfer Molding Adhesion. ACS Applied Polymer Materials, 2019, 1, 997-1005.  | 4.4 | 4         |
| 13 | Creating Aligned Nanopores by Magnetic Field Processing of Block Copolymer/Homopolymer Blends.<br>ACS Macro Letters, 2019, 8, 261-266.                                 | 4.8 | 13        |
| 14 | Maximizing Contact of Supersoft Bottlebrush Networks with Rough Surfaces To Promote Particulate<br>Removal. ACS Applied Materials & Interfaces, 2019, 11, 45310-45318. | 8.0 | 15        |
| 15 | Compressing and Swelling To Study the Structure of Extremely Soft Bottlebrush Networks Prepared by ROMP. Macromolecules, 2018, 51, 2359-2366.                          | 4.8 | 51        |
| 16 | Star polymer-assembled thin film composite membranes with high separation performance and low fouling. Journal of Membrane Science, 2018, 555, 369-378.                | 8.2 | 37        |
| 17 | Studying water and solute transport through desalination membranes via neutron radiography.<br>Journal of Membrane Science, 2018, 548, 667-675.                        | 8.2 | 2         |
| 18 | Model Polymer Thin Films To Measure Structure and Dynamics of Confined, Swollen Networks. ACS<br>Symposium Series, 2018, , 91-115.                                     | 0.5 | 0         |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Size effects in plasma-enhanced nano-transfer adhesion. Soft Matter, 2018, 14, 9220-9226.   | 2.7  | 1         |
| 20 | Viscoplastic fracture transition of a biopolymer gel. Soft Matter, 2018, 14, 4696-4701.   | 2.7  | 10        |
| 21 | Functional group quantification of polymer nanomembranes with soft x-rays. Physical Review Materials, 2018, 2, .  | 2.4  | 16        |
| 22 | Thin film composite reverse osmosis membranes prepared via layered interfacial polymerization.<br>Journal of Membrane Science, 2017, 527, 121-128.                              | 8.2  | 117       |
| 23 | Thicknessâ€dependent swelling of molecular layerâ€byâ€layer polyamide nanomembranes. Journal of<br>Polymer Science, Part B: Polymer Physics, 2017, 55, 412-417.                 | 2.1  | 18        |
| 24 | Quantifying the sensitivity of the network structure and properties from simultaneous measurements during photopolymerization. Soft Matter, 2017, 13, 3975-3983.                | 2.7  | 8         |
| 25 | Signatures of Intracrystallite and Intercrystallite Limitations of Charge Transport in Polythiophenes.<br>Macromolecules, 2016, 49, 7359-7369.                                  | 4.8  | 43        |
| 26 | Nanoscale Pillar-Enhanced Tribological Surfaces as Antifouling Membranes. ACS Applied Materials<br>& Interfaces, 2016, 8, 31433-31441.  | 8.0  | 46        |
| 27 | Using Indentation to Quantify Transport Properties of Nanophase‣egregated Polymer Thin Films.<br>Advanced Materials, 2015, 27, 4924-4930.                                       | 21.0 | 23        |
| 28 | Tailor-Made Polyamide Membranes for Water Desalination. ACS Nano, 2015, 9, 345-355.   | 14.6 | 109       |
| 29 | Bilayer Mass Transport Model for Determining Swelling and Diffusion in Coated, Ultrathin Membranes. ACS Applied Materials & amp; Interfaces, 2015, 7, 3492-3502.                | 8.0  | 15        |
| 30 | Utilizing vapor swelling of surface-initiated polymer brushes toÂdevelop quantitative measurements of<br>brush thermodynamics andÂgrafting density. Polymer, 2015, 72, 471-478. | 3.8  | 32        |
| 31 | Tailoring interlayer structure of molecular layer-by-layer assembled polyamide membranes for high separation performance. Applied Surface Science, 2015, 356, 659-667.          | 6.1  | 38        |
| 32 | Deswelling of ultrathin molecular layer-by-layer polyamide water desalination membranes. Soft<br>Matter, 2014, 10, 2949.  | 2.7  | 22        |
| 33 | Tailoring the Permselectivity of Water Desalination Membranes via Nanoparticle Assembly. Langmuir, 2014, 30, 611-616.   | 3.5  | 25        |
| 34 | Molecular Layerâ€by‣ayer Assembled Thinâ€Film Composite Membranes for Water Desalination. Advanced<br>Materials, 2013, 25, 4778-4782.   | 21.0 | 258       |
| 35 | Correlating chlorine-induced changes in mechanical properties to performance in polyamide-based thin film composite membranes. Journal of Membrane Science, 2013, 433, 72-79.   | 8.2  | 56        |
| 36 | Mechanochromic Photonic Gels. Advanced Materials, 2013, 25, 3934-3947.  | 21.0 | 154       |

| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 37 | Swelling of Ultrathin Molecular Layerâ€by‣ayer Polyamide Water Desalination Membranes. Journal of<br>Polymer Science, Part B: Polymer Physics, 2013, 51, 1647-1655.  | 2.1  | 36        |
| 38 | Swelling of ultrathin crosslinked polyamide water desalination membranes. Journal of Polymer<br>Science, Part B: Polymer Physics, 2013, 51, 385-391.   | 2.1  | 37        |
| 39 | Poroelastic relaxation of polymer-loaded hydrogels. Soft Matter, 2012, 8, 8234.  | 2.7  | 23        |
| 40 | Quantifying the elasticity and viscosity of geometrically confined polymer films via thermal wrinkling. Journal of Polymer Science, Part B: Polymer Physics, 2012, 50, 1556-1561.  | 2.1  | 14        |
| 41 | Spherical indentation testing of poroelastic relaxations in thin hydrogel layers. Soft Matter, 2012, 8, 1492-1498.   | 2.7  | 101       |
| 42 | An automated spin-assisted approach for molecular layer-by-layer assembly of crosslinked polymer thin films. Review of Scientific Instruments, 2012, 83, 114102.   | 1.3  | 46        |
| 43 | Adhesion Behavior of Soft Materials. , 2012, , 89-125.   |      | 2         |
| 44 | Comment on "Viscoelastic properties of confined polymer films measured via thermal wrinkling―by E.<br>P. Chan, K. A. Page, S. H. Im, D. L. Patton, R. Huang, and C. M. Stafford, Soft Matter, 2009,5, 4638–4641.<br>Soft Matter, 2011, 7, 788-790. | 2.7  | 2         |
| 45 | Quantifying the Stress Relaxation Modulus of Polymer Thin Films via Thermal Wrinkling. ACS Applied<br>Materials & Interfaces, 2011, 3, 331-338.  | 8.0  | 54        |
| 46 | A "selfâ€pinning―adhesive based on responsive surface wrinkles. Journal of Polymer Science, Part B:<br>Polymer Physics, 2011, 49, 40-44.   | 2.1  | 44        |
| 47 | Block Copolymer Photonic Gel for Mechanochromic Sensing. Advanced Materials, 2011, 23, 4702-4706.  | 21.0 | 100       |
| 48 | Poroelastic relaxation indentation of thin layers of gels. Journal of Applied Physics, 2011, 110, 086103.  | 2.5  | 61        |
| 49 | Correlations between Mechanical and Electrical Properties of Polythiophenes. ACS Nano, 2010, 4, 7538-7544.   | 14.6 | 210       |
| 50 | Viscoelastic properties of confined polymer films measured via thermal wrinkling. Soft Matter, 2009,<br>5, 4638.   | 2.7  | 61        |
| 51 | Surface Wrinkles for Smart Adhesion. Advanced Materials, 2008, 20, 711-716.  | 21.0 | 451       |
| 52 | A biodegradable and biocompatible gecko-inspired tissue adhesive. Proceedings of the National<br>Academy of Sciences of the United States of America, 2008, 105, 2307-2312.  | 7.1  | 490       |
| 53 | WRINKLING POLYMERS FOR SURFACE STRUCTURE CONTROL AND FUNCTIONALITY. Series in Sof Condensed Matter, 2008, , 141-161.   | 0.1  | 0         |
| 54 | Adhesion of Patterned Reactive Interfaces. Journal of Adhesion, 2007, 83, 473-489.   | 3.0  | 25        |

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 55 | Designing Model Systems for Enhanced Adhesion. MRS Bulletin, 2007, 32, 496-503.   | 3.5  | 72        |
| 56 | Impact of Surface-Modified Nanoparticles on Glass Transition Temperature and Elastic Modulus of<br>Polymer Thin Films. Macromolecules, 2007, 40, 7755-7757. | 4.8  | 48        |
| 57 | Spontaneous formation of stable aligned wrinkling patterns. Soft Matter, 2006, 2, 324.  | 2.7  | 160       |
| 58 | Fabricating Microlens Arrays by Surface Wrinkling. Advanced Materials, 2006, 18, 3238-3242.   | 21.0 | 325       |
| 59 | Quantifying release in step-and-flash imprint lithography. Journal of Vacuum Science & Technology B, 2006, 24, 2716.  | 1.3  | 16        |
| 60 | An Orientationally Ordered Hierarchical Exfoliated Clayâ´'Block Copolymer Nanocomposite.<br>Macromolecules, 2005, 38, 5170-5179.                            | 4.8  | 64        |