

Eric M Kramer

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

3,141
citations

279798

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h-index

302126

39
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all docs

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docs citations

39
times ranked

3343
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The auxin influx carrier LAX3 promotes lateral root emergence. <i>Nature Cell Biology</i> , 2008, 10, 946-954. | 10.3 | 715 |
| 2 | Root gravitropism requires lateral root cap and epidermal cells for transport and response to a mobile auxin signal. <i>Nature Cell Biology</i> , 2005, 7, 1057-1065. | 10.3 | 514 |
| 3 | Auxin transport through non-hair cells sustains root-hair development. <i>Nature Cell Biology</i> , 2009, 11, 78-84. | 10.3 | 212 |
| 4 | Auxin transport: a field in flux. <i>Trends in Plant Science</i> , 2006, 11, 382-386. | 8.8 | 211 |
| 5 | Systems Analysis of Auxin Transport in the <i>Arabidopsis</i> Root Apex. <i>Plant Cell</i> , 2014, 26, 862-875. | 6.6 | 190 |
| 6 | PIN and AUX/LAX proteins: their role in auxin accumulation. <i>Trends in Plant Science</i> , 2004, 9, 578-582. | 8.8 | 149 |
| 7 | Regulation of Solute Flux through Plasmodesmata in the Root Meristem. <i>Plant Physiology</i> , 2011, 155, 1817-1826. | 4.8 | 109 |
| 8 | Sequential induction of auxin efflux and influx carriers regulates lateral root emergence. <i>Molecular Systems Biology</i> , 2013, 9, 699. | 7.2 | 104 |
| 9 | Stress Condensation in Crushed Elastic Manifolds. <i>Physical Review Letters</i> , 1997, 78, 1303-1306. | 7.8 | 89 |
| 10 | The Advantages of a Tapered Whisker. <i>PLoS ONE</i> , 2010, 5, e8806. | 2.5 | 80 |
| 11 | Measurement of diffusion within the cell wall in living roots of <i>Arabidopsis thaliana</i> . <i>Journal of Experimental Botany</i> , 2007, 58, 3005-3015. | 4.8 | 73 |
| 12 | How Far Can a Molecule of Weak Acid Travel in the Apoplast or Xylem? <i>Plant Physiology</i> , 2006, 141, 1233-1236. | 4.8 | 68 |
| 13 | Auxin-regulated cell polarity: an inside job?. <i>Trends in Plant Science</i> , 2009, 14, 242-247. | 8.8 | 61 |
| 14 | Universal power law in the noise from a crumpled elastic sheet. <i>Physical Review E</i> , 1996, 53, 1465-1469. | 2.1 | 57 |
| 15 | Computer models of auxin transport: a review and commentary. <i>Journal of Experimental Botany</i> , 2008, 59, 45-53. | 4.8 | 56 |
| 16 | Auxin metabolism rates and implications for plant development. <i>Frontiers in Plant Science</i> , 2015, 6, 150. | 3.6 | 54 |
| 17 | AuxV: a database of auxin transport velocities. <i>Trends in Plant Science</i> , 2011, 16, 461-463. | 8.8 | 40 |
| 18 | A Mathematical Model of Pattern Formation in the Vascular Cambium of Trees. <i>Journal of Theoretical Biology</i> , 2002, 216, 147-158. | 1.7 | 35 |

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|----|--|------|-----------|
| 19 | The carrier AUXIN RESISTANT (AUX1) dominates auxin flux into Arabidopsis protoplasts. <i>New Phytologist</i> , 2014, 204, 536-544. | 7.3 | 35 |
| 20 | Five popular misconceptions about osmosis. <i>American Journal of Physics</i> , 2012, 80, 694-699. | 0.7 | 33 |
| 21 | Singularities, structures, and scaling in deformed m -dimensional elastic manifolds. <i>Physical Review E</i> , 2001, 65, 016603. | 2.1 | 31 |
| 22 | Wood Grain Pattern Formation: A Brief Review. <i>Journal of Plant Growth Regulation</i> , 2006, 25, 290-301. | 5.1 | 27 |
| 23 | Osmosis is not driven by water dilution. <i>Trends in Plant Science</i> , 2013, 18, 195-197. | 8.8 | 24 |
| 24 | Avoidance model for soft particles. II. Positional ordering of charged rods. <i>Physical Review E</i> , 2000, 61, 6872-6878. | 2.1 | 20 |
| 25 | Auxin Gradients Are Associated with Polarity Changes in Trees. <i>Science</i> , 2008, 320, 1610-1610. | 12.6 | 20 |
| 26 | Limitations on the smooth confinement of an unstretchable manifold. <i>Journal of Mathematical Physics</i> , 2000, 41, 5107-5128. | 1.1 | 19 |
| 27 | A Mathematical Model of Auxin-mediated Radial Growth in Trees. <i>Journal of Theoretical Biology</i> , 2001, 208, 387-397. | 1.7 | 16 |
| 28 | Do Vacuoles Obscure the Evidence for Auxin Homeostasis?. <i>Molecular Plant</i> , 2016, 9, 4-6. | 8.3 | 15 |
| 29 | The von Karman equations, the stress function, and elastic ridges in high dimensions. <i>Journal of Mathematical Physics</i> , 1997, 38, 830-846. | 1.1 | 14 |
| 30 | Wood grain patterns at branch junctions: modeling and implications. <i>Trees - Structure and Function</i> , 2004, 18, 493. | 1.9 | 13 |
| 31 | Distribution functions for reversibly self-assembling spherocylinders. <i>Physical Review E</i> , 1998, 58, 5934-5947. | 2.1 | 12 |
| 32 | Observation of Topological Defects in the Xylem of <i>Populus deltoides</i> and Implications for the Vascular Cambium. <i>Journal of Theoretical Biology</i> , 1999, 200, 223-230. | 1.7 | 10 |
| 33 | Avoidance model for soft particles. I. Charged spheres and rods beyond the dilute limit. <i>Journal of Chemical Physics</i> , 1999, 110, 8825-8834. | 3.0 | 9 |
| 34 | Defect coarsening in a biological system: The vascular cambium of cottonwood trees. <i>Physical Review E</i> , 2003, 67, 041914. | 2.1 | 7 |
| 35 | Scaling Laws for Mitotic Chromosomes. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 684278. | 3.7 | 7 |
| 36 | A Transcriptomics and Comparative Genomics Analysis Reveals Gene Families with a Role in Body Plan Complexity. <i>Frontiers in Plant Science</i> , 2017, 8, 869. | 3.6 | 5 |

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|----|---|-----|-----------|
| 37 | Defect coarsening and spin waves in the nonlinear ϕ^4 model. <i>Physical Review E</i> , 1994, 50, 3594-3600. | 2.1 | 3 |
| 38 | Flowering plant immune repertoires expand under mycorrhizal symbiosis. <i>Plant Direct</i> , 2019, 3, e00125. | 1.9 | 2 |
| 39 | Oxygen uptake rates have contrasting responses to temperature in the root meristem and elongation zone. <i>Physiologia Plantarum</i> , 2022, 174, e13682. | 5.2 | 2 |