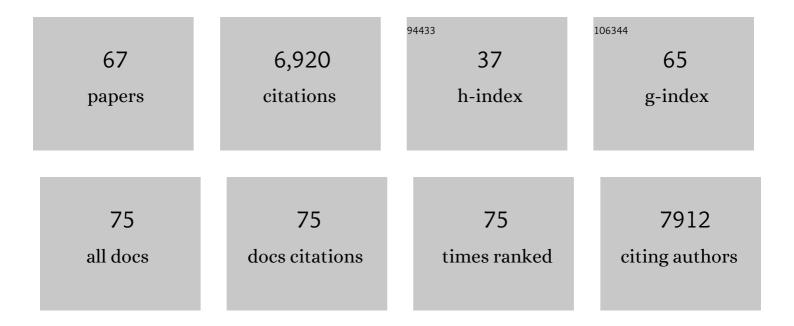
George W Bassel

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4040093/publications.pdf

Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Homeostatic response to hypoxia is regulated by the N-end rule pathway in plants. Nature, 2011, 479, 415-418. | 27.8 | 576 |
| 2 | Germination—Still a mystery. Plant Science, 2010, 179, 574-581. | 3.6 | 529 |
| 3 | Seed vigour and crop establishment: extending performance beyond adaptation. Journal of Experimental Botany, 2016, 67, 567-591. | 4.8 | 521 |
| 4 | <i>Arabidopsis</i> PYR/PYL/RCAR Receptors Play a Major Role in Quantitative Regulation of Stomatal Aperture and Transcriptional Response to Abscisic Acid. Plant Cell, 2012, 24, 2483-2496. | 6.6 | 493 |
| 5 | Coâ€expression tools for plant biology: opportunities for hypothesis generation and caveats. Plant, Cell and Environment, 2009, 32, 1633-1651. | 5.7 | 480 |
| 6 | MorphoGraphX: A platform for quantifying morphogenesis in 4D. ELife, 2015, 4, 05864. | 6.0 | 389 |
| 7 | Nitric Oxide Sensing in Plants Is Mediated by Proteolytic Control of Group VII ERF Transcription Factors. Molecular Cell, 2014, 53, 369-379. | 9.7 | 312 |
| 8 | Identification of Reference Genes for RT–qPCR Expression Analysis in Arabidopsis and Tomato Seeds. Plant and Cell Physiology, 2012, 53, 28-37. | 3.1 | 223 |
| 9 | Genome-wide network model capturing seed germination reveals coordinated regulation of plant cellular phase transitions. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9709-9714. | 7.1 | 210 |
| 10 | Genetic Control of Plant Development by Overriding a Geometric Division Rule. Developmental Cell, 2014, 29, 75-87. | 7.0 | 203 |
| 11 | Ethylene-mediated nitric oxide depletion pre-adapts plants to hypoxia stress. Nature Communications, 2019, 10, 4020. | 12.8 | 195 |
| 12 | Transcriptional Dynamics of Two Seed Compartments with Opposing Roles in Arabidopsis Seed Germination Â. Plant Physiology, 2013, 163, 205-215. | 4.8 | 175 |
| 13 | Mechanical constraints imposed by 3D cellular geometry and arrangement modulate growth patterns in the <i>Arabidopsis</i> embryo. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8685-8690. | 7.1 | 172 |
| 14 | Accurate and versatile 3D segmentation of plant tissues at cellular resolution. ELife, 2020, 9, . | 6.0 | 155 |
| 15 | Germination of Arabidopsis thaliana seeds is not completed as a result of elongation of the radicle but of the adjacent transition zone and lower hypocotyl. Journal of Experimental Botany, 2009, 60, 3587-3594. | 4.8 | 136 |
| 16 | <i>procera</i> is a putative DELLA mutant in tomato (<i>Solanum lycopersicum</i>): effects on the seed and vegetative plant. Journal of Experimental Botany, 2008, 59, 585-593. | 4.8 | 133 |
| 17 | Oxygen Sensing Coordinates Photomorphogenesis to Facilitate Seedling Survival. Current Biology, 2015, 25, 1483-1488. | 3.9 | 131 |
| 18 | Elucidating the Germination Transcriptional Program Using Small Molecules Â. Plant Physiology, 2008, 147, 143-155. | 4.8 | 104 |

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | A prion-like protein regulator of seed germination undergoes hydration-dependent phase separation. Cell, 2021, 184, 4284-4298.e27. | 28.9 | 99 |
| 20 | Systems Analysis of Plant Functional, Transcriptional, Physical Interaction, and Metabolic Networks. Plant Cell, 2012, 24, 3859-3875. | 6.6 | 96 |
| 21 | Functional Network Construction in <i>Arabidopsis</i> Using Rule-Based Machine Learning on Large-Scale Data Sets Â. Plant Cell, 2011, 23, 3101-3116. | 6.6 | 91 |
| 22 | Temperature variability is integrated by a spatially embedded decision-making center to break dormancy in <i>Arabidopsis</i> seeds. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 6629-6634. | 7.1 | 81 |
| 23 | <i>At</i> <scp>MYB</scp> 93 is a novel negative regulator of lateral root development in Arabidopsis. New Phytologist, 2014, 203, 1194-1207. | 7.3 | 79 |
| 24 | Global Topological Order Emerges through Local Mechanical Control of Cell Divisions in the Arabidopsis Shoot Apical Meristem. Cell Systems, 2019, 8, 53-65.e3. | 6.2 | 74 |
| 25 | A Regulatory Module Controlling GA-Mediated Endosperm Cell Expansion Is Critical for Seed Germination in Arabidopsis. Molecular Plant, 2019, 12, 71-85. | 8.3 | 69 |
| 26 | Digital Single-Cell Analysis of Plant Organ Development Using 3DCellAtlas. Plant Cell, 2015, 27, 1018-1033. | 6.6 | 67 |
| 27 | Down-Regulation of DELLA Genes Is Not Essential for Germination of Tomato, Soybean, and Arabidopsis Seeds. Plant Physiology, 2004, 136, 2782-2789. | 4.8 | 63 |
| 28 | The regulation of post-germinative transition from the cotyledon- to vegetative-leaf stages by microRNA-targeted <i>SQUAMOSA PROMOTER-BINDING PROTEIN LIKE13</i> in <i>Arabidopsis</i> . Seed Science Research, 2010, 20, 89-96. | 1.7 | 61 |
| 29 | ABI3 expression ceases following, but not during, germination of tomato and Arabidopsis seeds. Journal of Experimental Botany, 2006, 57, 1291-1297. | 4.8 | 60 |
| 30 | The decision to germinate is regulated by divergent molecular networks in spores and seeds. New Phytologist, 2016, 211, 952-966. | 7.3 | 56 |
| 31 | A Molecular Signal Integration Network Underpinning Arabidopsis Seed Germination. Current Biology, 2020, 30, 3703-3712.e4. | 3.9 | 56 |
| 32 | The microRNA156 and microRNA172 gene regulation cascades at post-germinative stages in <i>Arabidopsis</i> . Seed Science Research, 2010, 20, 79-87. | 1.7 | 55 |
| 33 | To Grow or not to Grow?. Trends in Plant Science, 2016, 21, 498-505. | 8.8 | 53 |
| 34 | The Emergence of Embryos from Hard Seeds is Related to the Structure of the Cell Walls of the Micropylar Endosperm, and not to Endo-β-mannanase Activity. Annals of Botany, 2005, 96, 1165-1173. | 2.9 | 50 |
| 35 | Quantifying morphogenesis in plants in 4D. Current Opinion in Plant Biology, 2016, 29, 87-94. | 7.1 | 43 |
| 36 | What is quantitative plant biology?. Quantitative Plant Biology, 2021, 2, . | 2.0 | 43 |

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| 37 | Using positional information to provide context for biological image analysis with MorphoGraphX 2.0. ELife, 2022, 11, . | 6.0 | 41 |
| 38 | The Transcription Factor ATHB5 Affects GA-Mediated Plasticity in Hypocotyl Cell Growth during Seed Germination. Plant Physiology, 2017, 173, 907-917. | 4.8 | 40 |
| 39 | Information Processing and Distributed Computation in Plant Organs. Trends in Plant Science, 2018, 23, 994-1005. | 8.8 | 40 |
| 40 | A single-cell morpho-transcriptomic map of brassinosteroid action in the Arabidopsis root. Molecular Plant, 2021, 14, 1985-1999. | 8.3 | 40 |
| 41 | Mechanisms of hormonal regulation of endosperm capâ€specific gene expression in tomato seeds. Plant Journal, 2012, 71, 575-586. | 5.7 | 37 |
| 42 | Topological analysis of multicellular complexity in the plant hypocotyl. ELife, 2017, 6, . | 6.0 | 37 |
| 43 | Variability in seeds: biological, ecological, and agricultural implications. Journal of Experimental Botany, 2017, 68, erw397. | 4.8 | 33 |
| 44 | Network analysis of Arabidopsis mitochondrial dynamics reveals a resolved tradeoff between physical distribution and social connectivity. Cell Systems, 2021, 12, 419-431.e4. | 6.2 | 33 |
| 45 | Vision, challenges and opportunities for a Plant Cell Atlas. ELife, 2021, 10, . | 6.0 | 31 |
| 46 | Plant behaviour in response to the environment: information processing in the solid state. Philosophical Transactions of the Royal Society B: Biological Sciences, 2019, 374, 20180370. | 4.0 | 28 |
| 47 | Accuracy in Quantitative 3D Image Analysis. Plant Cell, 2015, 27, 950-953. | 6.6 | 26 |
| 48 | Trait Specific Expression Profiling of Salt Stress Responsive Genes in Diverse Rice Genotypes as Determined by Modified Significance Analysis of Microarrays. Frontiers in Plant Science, 2016, 7, 567. | 3.6 | 23 |
| 49 | Network-based approaches to quantify multicellular development. Journal of the Royal Society Interface, 2017, 14, 20170484. | 3.4 | 23 |
| 50 | Identification of a bet-hedging network motif generating noise in hormone concentrations and germination propensity in <i>Arabidopsis</i> . Journal of the Royal Society Interface, 2018, 15, 20180042. | 3.4 | 22 |
| 51 | Bridging Scales in Plant Biology Using Network Science. Trends in Plant Science, 2017, 22, 1001-1003. | 8.8 | 18 |
| 52 | 3DCellAtlas Meristem: a tool for the global cellular annotation of shoot apical meristems. Plant Methods, 2019, 15, 33. | 4.3 | 16 |
| 53 | Re-induction of the cell cycle in the Arabidopsis post-embryonic root meristem is ABA-insensitive, GA-dependent and repressed by KRP6. Scientific Reports, 2016, 6, 23586. | 3.3 | 14 |
| 54 | Efficient vasculature investment in tissues can be determined without global information. Journal of the Royal Society Interface, 2020, 17, 20200137. | 3.4 | 12 |

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|----|--|-----|-----------|
| 55 | Multicellular Systems Biology: Quantifying Cellular Patterning and Function in Plant Organs Using Network Science. Molecular Plant, 2019, 12, 731-742. | 8.3 | 10 |
| 56 | Linking Genes to Shape in Plants Using Morphometrics. Annual Review of Genetics, 2020, 54, 417-437. | 7.6 | 8 |
| 57 | Quantitative analysis of the 3D cell shape changes driving soybean germination. Journal of Experimental Botany, 2017, 68, 1531-1537. | 4.8 | 7 |
| 58 | In Silico Methods for Cell Annotation, Quantification of Gene Expression, and Cell Geometry at Single-Cell Resolution Using 3DCellAtlas. Methods in Molecular Biology, 2017, 1497, 99-123. | 0.9 | 7 |
| 59 | Transcripts Expressed during Germination Sensu Stricto Are Associated with Vigor in Soybean Seeds. Plants, 2022, 11, 1310. | 3.5 | 7 |
| 60 | Smoothed particle hydrodynamics for root growth mechanics. Engineering Analysis With Boundary Elements, 2019, 105, 20-30. | 3.7 | 6 |
| 61 | α-Galactosidase is synthesized in tomato seeds during development and is localized in the protein storage vacuoles. Canadian Journal of Botany, 2001, 79, 1417-1424. | 1.1 | 6 |
| 62 | Gene Expression Analyses for Elucidating Mechanisms of Hormonal Action in Plants. Methods in Molecular Biology, 2009, 495, 21-37. | 0.9 | 4 |
| 63 | Low temperature stimulates spatial molecular reprogramming of the Arabidopsis seed germination programme. Seed Science Research, 2020, 30, 2-12. | 1.7 | 4 |
| 64 | Fluorescein Transport Assay to Assess Bulk Flow of Molecules Through the Hypocotyl in Arabidopsis thaliana. Bio-protocol, 2018, 8, e2791. | 0.4 | 2 |
| 65 | Seed Bioinformatics. Methods in Molecular Biology, 2011, 773, 403-419. | 0.9 | 1 |
| 66 | Information Processing in Plants: Hormones as Integrators of External Cues into Plant Development. , 2021, , 289-302. | | 0 |
| 67 | Measuring Intercellular Interface Area in Plant Tissues Using Quantitative 3D Image Analysis. Methods in Molecular Biology, 2022, 2457, 457-464. | 0.9 | Ο |