# Timothy J Flowers

List of Publications by Year
in descending order



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|---|---|---|---|
| 72 papers | 15,716 citations | 71102<br>41 h-index | 102487<br>66 g-index |
| 74 all docs | 74 docs citations | 74 times ranked | 12063 citing authors |

| # | Article | IF | Citations |
| --- | --- | --- | --- |
| 1 | Distribution and Potential Uses of Halophytes within the Gulf Cooperation Council States. Agronomy, 2022, 12, 1030. | 3.0 | 9 |
| 2 | Root Growth and Structure of Growth Zone in Halophytes and Glycophytes Under Salinity. , 2021, , 1351-1393. | | 2 |
| 3 | Dynamic Responses of the Halophyte Suaeda maritima to Various Levels of External NaCl Concentration. , 2021, , 1637-1657. | | 0 |
| 4 | Salt tolerance in rice: seedling and reproductive stage QTL mapping come of age. Theoretical and Applied Genetics, 2021, 134, 3495-3533. | 3.6 | 73 |
| 5 | Consortia of Plant-Growth-Promoting Rhizobacteria Isolated from Halophytes Improve Response of Eight Crops to Soil Salinization and Climate Change Conditions. Agronomy, 2021, 11, 1609. | 3.0 | 27 |
| 6 | Casparian bands and suberin lamellae: Key targets for breeding salt tolerant crops?. Environmental and Experimental Botany, 2021, 191, 104600. | 4.2 | 18 |
| 7 | Is chloride toxic to seed germination in mixed-salt environments? A case study with the coastal halophyte Suaeda maritima in the presence of seawater. Plant Stress, 2021, 2, 100030. | 5.5 | 7 |
| 8 | Evolution in Angiosperm Halophytes. , 2021, , 2117-2146. | | 0 |
| 9 | ZxNHX1 indirectly participates in controlling K+ homeostasis in the xerophyte Zygophyllum xanthoxylum. Functional Plant Biology, 2021, 48, 402. | 2.1 | 4 |
| 10 | Evolution in Angiosperm Halophytes. , 2021, , 1-30. | | 1 |
| 11 | Salt Tolerance in the Halophyte Suaeda maritima L. Dum.â€"the Effect of Oxygen Supply and Culture Medium on Growth. Journal of Soil Science and Plant Nutrition, 2021, 21, 578-586. | 3.4 | 1 |
| 12 | TRY plant trait database â€" enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188. | 9.5 | 1,038 |
| 13 | Improving crop salt tolerance using transgenic approaches: An update and physiological analysis. Plant, Cell and Environment, 2020, 43, 2932-2956. | 5.7 | 70 |
| 14 | Secretory structures in plants: Lessons from the Plumbaginaceae on their origin, evolution and roles in stress tolerance. Plant, Cell and Environment, 2020, 43, 2912-2931. | 5.7 | 34 |
| 15 | SsHKT1;1 is coordinated with SsSOS1 and SsNHX1 to regulate Na+ homeostasis in Suaeda salsa under saline conditions. Plant and Soil, 2020, 449, 117-131. | 3.7 | 34 |
| 16 | Aliphatic suberin confers salt tolerance to Arabidopsis by limiting Na+ influx, K+ efflux and water backflow. Plant and Soil, 2020, 448, 603-620. | 3.7 | 25 |
| 17 | Root Growth and Structure of Growth Zone in Halophytes and Glycophytes Under Salinity. , 2020, , 1-44. | | 0 |
| 18 | Dynamic Responses of the Halophyte Suaeda maritima to Various Levels of External NaCl Concentration. , 2020, , 1-22. | | 1 |

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|---|---|---|---|
| 19 | Mechanisms of Ion Transport in Halophytes: From Roots to Leaves. Tasks for Vegetation Science, 2019, , 125-150. | 0.6 | 5 |
| 20 | Could vesicular transport of Na+ and Clâ€“ be a feature of salt tolerance in halophytes?. Annals of Botany, 2019, 123, 1-18. | 2.9 | 53 |
| 21 | Seed germination niche of the halophyte Suaeda maritima to combined salinity and temperature is characterised by a halothermal time model. Environmental and Experimental Botany, 2018, 155, 177-184. | 4.2 | 41 |
| 22 | Metabolic and physiological adjustment of<i>Suaeda maritima</i>to combined salinity and hypoxia. Annals of Botany, 2017, 119, mcw282. | 2.9 | 37 |
| 23 | Tissue tolerance: an essential but elusive trait for salt-tolerant crops. Functional Plant Biology, 2016, 43, 1103. | 2.1 | 162 |
| 24 | eHALOPH a Database of Salt-Tolerant Plants: Helping put Halophytes to Work. Plant and Cell Physiology, 2016, 57, e10-e10. | 3.1 | 135 |
| 25 | Plant salt tolerance: adaptations in halophytes. Annals of Botany, 2015, 115, 327-331. | 2.9 | 553 |
| 26 | Introduction to the Special Issue: Halophytes in a changing world. AoB PLANTS, 2015, 7, . | 2.3 | 68 |
| 27 | Is the reduced growth of the halophyte Suaeda maritima under hypoxia due to toxicity of iron or manganese?. Environmental and Experimental Botany, 2015, 116, 61-70. | 4.2 | 8 |
| 28 | Sodium chloride toxicity and the cellular basis of salt tolerance in halophytes. Annals of Botany, 2015, 115, 419-431. | 2.9 | 516 |
| 29 | Differentiation of low-affinity Na+ uptake pathways and kinetics of the effects of K+ on Na+ uptake in the halophyte Suaeda maritima. Plant and Soil, 2013, 368, 629-640. | 3.7 | 31 |
| 30 | The effect of combined salinity and waterlogging on the halophyte Suaeda maritima: The role of antioxidants. Environmental and Experimental Botany, 2013, 87, 120-125. | 4.2 | 67 |
| 31 | Oxygen dynamics in a salt-marsh soil and in Suaeda maritima during tidal submergence. Environmental and Experimental Botany, 2013, 92, 73-82. | 4.2 | 36 |
| 32 | Germination strategies of halophyte seeds under salinity. Environmental and Experimental Botany, 2013, 92, 4-18. | 4.2 | 211 |
| 33 | Ranking of 11 coastal halophytes from salt marshes in northwest Turkey according their salt tolerance. Turkish Journal of Botany, 2013, 37, 1125-1133. | 1.2 | 12 |
| 34 | High phenotypic plasticity of Suaeda maritima observed under hypoxic conditions in relation to its physiological basis. Annals of Botany, 2012, 109, 1027-1036. | 2.9 | 22 |
| 35 | Effect of low salinity on ion accumulation, gas exchange and postharvest drought resistance and habit of Coriandrum sativum L.. Plant and Soil, 2012, 355, 199-214. | 3.7 | 7 |
| 36 | A new screening technique for salinity resistance in rice (<i>Oryza sativa</i> L.) seedlings using bypass flow. Plant, Cell and Environment, 2012, 35, 1099-1108. | 5.7 | 50 |

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|---|---|---|---|
| 37 | Diversity and physiological plasticity of vegetable genotypes of coriander improves herb yield, habit and harvesting window in any season. Euphytica, 2011, 180, 369-384. | 1.2 | 1 |
| 38 | Plantâ€“water relations, growth and productivity of tomato irrigated by different methods with saline and nonâ€saline water. Irrigation and Drainage, 2011, 60, 446-453. | 1.7 | 7 |
| 39 | Mechanisms of sodium uptake by roots of higher plants. Plant and Soil, 2010, 326, 45-60. | 3.7 | 222 |
| 40 | Salt sensitivity in chickpea. Plant, Cell and Environment, 2010, 33, 490-509. | 5.7 | 194 |
| 41 | Studies on sodium bypass flow in lateral rootless mutants <i>lrt1</i> and <i>lrt2</i>, and crown rootless mutant <i>crl1</i> of rice (<i>Oryza sativa</i> L.). Plant, Cell and Environment, 2010, 33, 687-701. | 5.7 | 50 |
| 42 | The role of lateral roots in bypass flow in rice (<i>Oryza sativa</i> L.). Plant, Cell and Environment, 2010, 33, 702-716. | 5.7 | 60 |
| 43 | Glutathione half-cell reduction potential and Î±-tocopherol as viability markers during the prolonged storage of <i>Suaeda maritima</i> seeds. Seed Science Research, 2010, 20, 47-53. | 1.7 | 38 |
| 44 | The effect of saline hypoxia on growth and ion uptake in Suaeda maritima. Functional Plant Biology, 2010, 37, 646. | 2.1 | 18 |
| 45 | Evolution of halophytes: multiple origins of salt tolerance in land plants. Functional Plant Biology, 2010, 37, 604. | 2.1 | 556 |
| 46 | The ionic effects of NaCl on physiology and gene expression in rice genotypes differing in salt tolerance. Plant and Soil, 2009, 315, 135-147. | 3.7 | 43 |
| 47 | <i>Puccinellia tenuiflora</i> maintains a low Na<sup>+</sup> level under salinity by limiting unidirectional Na<sup>+</sup> influx resulting in a high selectivity for K<sup>+</sup> over Na<sup>+</sup>. Plant, Cell and Environment, 2009, 32, 486-496. | 5.7 | 142 |
| 48 | The effects of sodium chloride on ornamental shrubs. Scientia Horticulturae, 2009, 122, 586-593. | 3.6 | 98 |
| 49 | <i>Review:</i>Physiological Approaches to the Improvement of Chemical Control of Japanese Knotweed (<i>Fallopia japonica</i>). Weed Science, 2009, 57, 584-592. | 1.5 | 46 |
| 50 | Effect of irrigation methods, management and salinity of irrigation water on tomato yield, soil moisture and salinity distribution. Irrigation Science, 2008, 26, 313-323. | 2.8 | 141 |
| 51 | Flooding tolerance in halophytes. New Phytologist, 2008, 179, 964-974. | 7.3 | 247 |
| 52 | Salinity tolerance in halophytes*. New Phytologist, 2008, 179, 945-963. | 7.3 | 2,141 |
| 53 | Crops for a Salinized World. Science, 2008, 322, 1478-1480. | 12.6 | 604 |
| 54 | Do Conditions During Dormancy Influence Germination of Suaeda maritima?. Annals of Botany, 2008, 101, 1319-1327. | 2.9 | 31 |

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|---|---|---|---|
| 55 | Low-Affinity Na+ Uptake in the Halophyte<i>Suaeda maritima</i>Â. Plant Physiology, 2007, 145, 559-571. | 4.8 | 166 |
| 56 | Use of wild relatives to improve salt tolerance in wheat. Journal of Experimental Botany, 2006, 57, 1059-1078. | 4.8 | 455 |
| 57 | Why does salinity pose such a difficult problem for plant breeders?. Agricultural Water Management, 2005, 78, 15-24. | 5.6 | 289 |
| 58 | Improving crop salt tolerance. Journal of Experimental Botany, 2004, 55, 307-319. | 4.8 | 1,718 |
| 59 | Single-Cell Measurements of the Contributions of Cytosolic Na+ and K+ to Salt Tolerance. Plant Physiology, 2003, 131, 676-683. | 4.8 | 274 |
| 60 | Effects of salinity and ozone, individually and in combination, on the growth and ion contents of two chickpea ( Cicer arietinum L.) varieties. Environmental Pollution, 2002, 120, 397-403. | 7.5 | 48 |
| 61 | Title is missing!. Plant and Soil, 2001, 231, 1-9. | 3.7 | 160 |
| 62 | Quantitative Trait Loci for Component Physiological Traits Determining Salt Tolerance in Rice. Plant Physiology, 2001, 125, 406-422. | 4.8 | 307 |
| 63 | Salt Tolerance at the Whole-Plant Level. , 2000, , 107-123. | | 8 |
| 64 | Silicon reduces sodium uptake in rice (Oryza sativaL.) in saline conditions and this is accounted for by a reduction in the transpirational bypass flow. Plant, Cell and Environment, 1999, 22, 559-565. | 5.7 | 340 |
| 65 | Breeding for salt tolerance in crop plants â€" the role of molecular biology. Acta Physiologiae Plantarum, 1997, 19, 427-433. | 2.1 | 128 |
| 66 | Breeding for Salinity Resistance in Crop Plants: Where Next?. Functional Plant Biology, 1995, 22, 875. | 2.1 | 634 |
| 67 | Short- and Long-Term Effects of Salinity on Leaf Growth in Rice (Oryza sativaL.). Journal of Experimental Botany, 1991, 42, 881-889. | 4.8 | 243 |
| 68 | Salinity Resistance in Rice (Oryza sativa L.) And a Pyramiding Approach to Breeding Varieties for Saline Soils. Functional Plant Biology, 1986, 13, 161. | 2.1 | 217 |
| 69 | Ion Relations of Plants Under Drought and Salinity. Functional Plant Biology, 1986, 13, 75. | 2.1 | 279 |
| 70 | Halophytes. Quarterly Review of Biology, 1986, 61, 313-337. | 0.1 | 453 |
| 71 | VARIABILITY IN THE RESISTANCE OF SODIUM CHLORIDE SALINITY WITHIN RICE (ORYZA SATIVA L.) VARIETIES. New Phytologist, 1981, 88, 363-373. | 7.3 | 286 |
| 72 | The Mechanism of Salt Tolerance in Halophytes. Annual Review of Plant Physiology, 1977, 28, 89-121. | 10.9 | 1,676 |