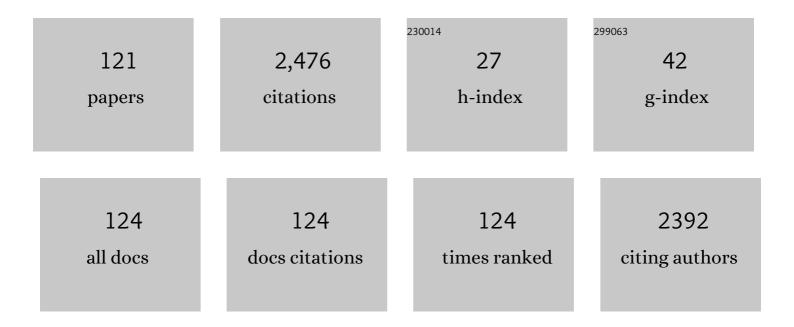
Saikat Gantait

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Genetic Transformation in Sugar Beet (Beta vulgaris L.): Technologies and Applications. Sugar Tech, 2023, 25, 269-281.	0.9	4
2	Alginate Encapsulation of Shoot Tips and Their Regeneration for Enhanced Mass Propagation and Germplasm Exchange of Genetically Stable Stevia rebaudiana Bert Sugar Tech, 2023, 25, 542-551.	0.9	5
3	Green synthesis of carbon-based nanomaterials and their applications in various sectors: a topical review. Carbon Letters, 2022, 32, 365-393.	3.3	15
4	Agri-biotechnology of coriander (Coriandrum sativum L.): an inclusive appraisal. Applied Microbiology and Biotechnology, 2022, 106, 951-969.	1.7	5
5	Drought tolerance improvement in Solanum lycopersicum: an insight into "OMICS―approaches and genome editing. 3 Biotech, 2022, 12, 63.	1.1	11
6	Accelerated mono-phasic in vitro mass production of banana propagules and their morpho-cyto-genetic stability assessment. South African Journal of Botany, 2022, 146, 794-806.	1.2	17
7	Enhanced somatic embryogenesis, plant regeneration and total phenolicÂcontent estimation in Lycium barbarum L.: a highly nutritive and medicinal plant. Journal of Crop Science and Biotechnology, 2022, 25, 547-555.	0.7	5
8	One-step in vitro protocol for clonal propagation of Dendrobium Yuki White, a high value ornamental orchid hybrid. South African Journal of Botany, 2022, 146, 883-888.	1.2	6
9	M-brigde- and elicitor-assisted enhanced post-storage germination of Rauvolfia serpentina synthetic seeds, their genetic fidelity assessment and reserpine estimation. Industrial Crops and Products, 2022, 180, 114732.	2.5	9
10	Improving crops through transgenic breeding—Technological advances and prospects. , 2022, , 295-324.		2
11	Hyperhydricity-induced changes among in vitro regenerants of gerbera. South African Journal of Botany, 2022, 149, 496-501.	1.2	8
12	Hairy root culture technology: applications, constraints and prospect. Applied Microbiology and Biotechnology, 2021, 105, 35-53.	1.7	35
13	Advances in biotechnology of Emblica officinalis Gaertn. syn. Phyllanthus emblica L.: a nutraceuticals-rich fruit tree with multifaceted ethnomedicinal uses. 3 Biotech, 2021, 11, 62.	1.1	41
14	Recent trends in agro-technology, post-harvest management and molecular characterisation of pomegranate. Journal of Horticultural Science and Biotechnology, 2021, 96, 409-427.	0.9	6
15	Induced autopolyploidy—a promising approach for enhanced biosynthesis of plant secondary metabolites: an insight. Journal of Genetic Engineering and Biotechnology, 2021, 19, 4.	1.5	35
16	meta-Topolin-induced enhanced biomass production via direct and indirect regeneration, synthetic seed production, and genetic fidelity assessment of Bacopa monnieri (L.) Pennell, a memory-booster plant. Acta Physiologiae Plantarum, 2021, 43, 1.	1.0	17
17	Secondary metabolites in orchids: Biosynthesis, medicinal uses, and biotechnology. South African Journal of Botany, 2021, 139, 338-351.	1.2	19
18	Tissue culture-based genetic improvement of fava bean (Vicia faba L.): analysis on previous achievements and future perspectives. Applied Microbiology and Biotechnology, 2021, 105, 6531-6546.	1.7	3

#	Article	IF	CITATIONS
19	Role of Meta-topolin on in Vitro Shoot Regeneration: An Insight. , 2021, , 143-168.		7
20	Artificial Seed Development of Selected Anti-Diabetic Plants, Their Storage and Regeneration: Progress and Prospect. , 2021, , 409-436.		3
21	Picloram-induced enhanced callus-mediated regeneration, acclimatization, and genetic clonality assessment of gerbera. Journal of Genetic Engineering and Biotechnology, 2021, 19, 175.	1.5	7
22	Cryopreservation of oil palm (Elaeis guineensis Jacq.) polyembryoids via encapsulation–desiccation. 3 Biotech, 2020, 10, 9.	1.1	8
23	Light Intensity-Induced Morphogenetic Response and Enhanced β-Sitosterol Accumulation in Date Palm (Phoenix dactylifera L. cv. Hayani) Callus Culture. Sugar Tech, 2020, 22, 1122-1129.	0.9	5
24	Ameliorated reserpine production via in vitro direct and indirect regeneration system in Rauvolfia serpentina (L.) Benth. ex Kurz 3 Biotech, 2020, 10, 294.	1.1	9
25	Effects of some gelling agents and their concentrations on conversion of oil palm polyembryoids into plantlets. Journal of Genetic Engineering and Biotechnology, 2020, 18, 5.	1.5	6
26	Coleus forskohlii: advancements and prospects of in vitro biotechnology. Applied Microbiology and Biotechnology, 2020, 104, 2359-2371.	1.7	19
27	Role of ethylene crosstalk in seed germination and early seedling development: A review. Plant Physiology and Biochemistry, 2020, 151, 124-131.	2.8	40
28	Biotechnological advancements in Catharanthus roseus (L.) G. Don. Applied Microbiology and Biotechnology, 2020, 104, 4811-4835.	1.7	37
29	Biotechnological Interventions for Ginsenosides Production. Biomolecules, 2020, 10, 538.	1.8	28
30	Tissue Culture-Mediated Biotechnological Advancements in Genus Brassica. , 2020, , 85-107.		2
31	Biotechnological interventions on the genus Rauvolfia: recent trends and imminent prospects. Applied Microbiology and Biotechnology, 2019, 103, 7325-7354.	1.7	35
32	In-silico study of biotic and abiotic stress-related transcription factor binding sites in the promoter regions of rice germin-like protein genes. PLoS ONE, 2019, 14, e0211887.	1.1	44
33	Applications of carbon nanomaterials in the plant system: A perspective view on the pros and cons. Science of the Total Environment, 2019, 667, 485-499.	3.9	210
34	Transgenic Ornamentals for Phytoremediation of Metals and Metalloids. , 2019, , 477-497.		2
35	Justicia beddomei, a source of comprehensive vasicinone production. Israel Journal of Plant Sciences, 2019, 66, 213-219.	0.3	2
36	Extension of postharvest shelf-life in green bell pepper (Capsicum annuum L.) using exogenous application of polyamines (spermidine and putrescine). Food Chemistry, 2019, 275, 681-687.	4.2	40

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37	Peanut (Arachis hypogaea L.) Breeding. , 2019, , 253-299.		1
38	Applications of Synthetic Seed Technology for Propagation, Storage, and Conservation of Orchid Germplasms. , 2019, , 301-321.		5
39	Natural production and quantification of ellagic acid in multiple plant parts of three <i>Terminalia</i> spp Medicinal Plants - International Journal of Phytomedicines and Related Industries, 2019, 11, 321.	0.1	0
40	Advances in Functional Genomics in Investigating Salinity Tolerance in Plants. , 2019, , 171-188.		2
41	Salient Biotechnological Interventions in Saffron (Crocus sativus L.): A Major Source of Bio-active Apocarotenoids. , 2019, , 205-223.		0
42	Genetic variability, character association and genetic divergence in groundnut (Arachis hypogaea L.) accessions. Legume Research, 2019, , .	0.0	0
43	Optimization of planting materials for large scale plantation of Bambusa balcooa Roxb.: Influence of propagation methods. Journal of the Saudi Society of Agricultural Sciences, 2018, 17, 79-87.	1.0	13
44	Engineered nanomaterials for plant growth and development: A perspective analysis. Science of the Total Environment, 2018, 630, 1413-1435.	3.9	196
45	An effective validated method for HPTLC-fingerprinting of alkaloids and glycosides from multiple plant parts of three Terminalia spp Israel Journal of Plant Sciences, 2018, 65, 109-117.	0.3	2
46	Influence of auxin and its polar transport inhibitor on the development of somatic embryos in Digitalis trojana. 3 Biotech, 2018, 8, 99.	1.1	18
47	Effect of rootstocks on growth, yield, quality, and leaf mineral composition of Nagpur mandarin (Citrus reticulata Blanco.), grown in red lateritic soil of West Bengal, India. Scientia Horticulturae, 2018, 237, 142-147.	1.7	15
48	Thidiazuron-Induced Protocorm-Like Bodies in Orchid: Progress and Prospects. , 2018, , 273-287.		10
49	Acacia: An exclusive survey on in vitro propagation. Journal of the Saudi Society of Agricultural Sciences, 2018, 17, 163-177.	1.0	17
50	Geographical Distribution, Botanical Description and Self-Incompatibility Mechanism of Genus Stevia. Sugar Tech, 2018, 20, 1-10.	0.9	46
51	Silver nitrate-induced in vitro shoot multiplication and precocious flowering in Catharanthus roseus (L.) G. Don, a rich source of terpenoid indole alkaloids. Plant Cell, Tissue and Organ Culture, 2018, 132, 579-584.	1.2	24
52	Enhanced growth and cardenolides production in Digitalis purpurea under the influence of different LED exposures in the plant factory. Scientific Reports, 2018, 8, 18009.	1.6	36
53	Transgenic approaches for genetic improvement in groundnut (Arachis hypogaea L.) against major biotic and abiotic stress factors. Journal of Genetic Engineering and Biotechnology, 2018, 16, 537-544.	1.5	19

54 Cryopreservation of Medicinal Herbs: Major Breakthroughs, Hurdles and Future. , 2018, , 353-381.

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55	Fundamental Facets of Somatic Embryogenesis and Its Applications for Advancement of Peanut Biotechnology. , 2018, , 267-298.		2
56	The retrospect and prospect of the applications of biotechnology in Phoenix dactylifera L Applied Microbiology and Biotechnology, 2018, 102, 8229-8259.	1.7	33
57	Conserving Biodiversity of a Potent Anticancer Plant, Catharanthus roseus Through In Vitro Biotechnological Intercessions: Substantial Progress and Imminent Prospects. , 2018, , 83-107.		1
58	Transgenic Research on Tomato: Problems, Strategies, and Achievements. , 2018, , 287-334.		1
59	In vitro biotechnological advancements in Malabar nut (Adhatoda vasica Nees): Achievements, status and prospects. Journal of Genetic Engineering and Biotechnology, 2018, 16, 545-552.	1.5	11
60	Changes in antioxidant and biochemical activities in castor oil-coated Capsicum annuum L. during postharvest storage. 3 Biotech, 2018, 8, 280.	1.1	11
61	Cytological analysis for meiotic patterns in wild rice (Oryza rufipogon Griff.). Biotechnology Reports (Amsterdam, Netherlands), 2017, 13, 26-29.	2.1	2
62	Impact of differential levels of sodium alginate, calcium chloride and basal media on germination frequency of genetically true artificial seeds of Rauvolfia serpentina (L.) Benth. ex Kurz Journal of Applied Research on Medicinal and Aromatic Plants, 2017, 4, 75-81.	0.9	24
63	Abscisic acid signal crosstalk during abiotic stress response. Plant Gene, 2017, 11, 61-69.	1.4	32
64	Sex-oriented research on dioecious crops of Indian subcontinent: an updated review. 3 Biotech, 2017, 7, 93.	1.1	14
65	An Efficient In Vitro Approach for Direct Regeneration and Callogenesis of Adhatoda vasica Nees, a Potential Source of Quinazoline Alkaloids. The National Academy of Sciences, India, 2017, 40, 319-324.	0.8	9
66	Concurrent production and relative quantification of vasicinone from in vivo and in vitro plant parts of Malabar nut (Adhatoda vasica Nees). 3 Biotech, 2017, 7, 280.	1.1	13
67	Does synthetic seed storage at higher temperature reduce reserpine content of Rauvolfia serpentina (L.) Benth. ex Kurz.?. Rendiconti Lincei, 2017, 28, 679-686.	1.0	14
68	Physiological role of rice germin-like protein 1 (OsGLP1) at early stages of growth and development in in indica rice cultivar under salt stress condition. Plant Cell, Tissue and Organ Culture, 2017, 131, 127-137.	1.2	34
69	Artificial Seed Production of Tylophora indica for Interim Storing and Swapping of Germplasm. Horticultural Plant Journal, 2017, 3, 41-46.	2.3	31
70	In vitro biotechnological approaches on Vanilla planifolia Andrews: advancements and opportunities. Acta Physiologiae Plantarum, 2017, 39, 1.	1.0	27
71	Gibberellic acid coating: A novel approach to expand the shelf-life in green chilli (Capsicum annuum) Tj ETQq1 1	0.784314 1.7	rgǥʒ /Overloc
72	Neoteric trends in tissue culture-mediated biotechnology of Indian ipecac [Tylophora indica (Burm. f.) Merrill]. 3 Biotech, 2017, 7, 231.	1.1	14

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73	Evaluation of rapeseed-mustard cultivars under late sown condition in coastal ecosystem of West Bengal. Journal of Applied and Natural Science, 2017, 9, 940-949.	0.2	3
74	Evaluation of Genetic Divergence in Spanish Bunch Groundnut (<i>Arachis hypogaea</i> Linn.) Genotypes. Plant Breeding and Biotechnology, 2017, 5, 163-171.	0.3	3
75	Quantitative description of upper storey vegetation at a foothill forest in Indian Eastern Himalayas , 2017, , 309-316.		3
76	High Performance thin layer chromatographic quantification of key cholesterol reducing compound (â°sitosterol) from leaf, bark, fruit and root of Terminalia arjuna, T. bellerica and T. chebula. Medicinal Plants - International Journal of Phytomedicines and Related Industries, 2017, 9, 272.	0.1	2
77	Cryoconservation methods for extended storage of plant genetic resources , 2017, , 458-464.		2
78	<i>In vitro</i> regeneration of <i>Chlorophytum borivilianum</i> Santapau & R.R. Fern Medicinal Plants - International Journal of Phytomedicines and Related Industries, 2017, 9, 76.	0.1	0
79	UVC-priming mediated modulation of forskolin biosynthesis key genes against Macrophomina root rot of Coleus forskohlii â¿¿A tissue culture based sustainable approach. Phytochemistry Letters, 2016, 17, 36-44.	0.6	13
80	Cryopreservation of Forest Tree Seeds: A Mini-Review. Journal of Forest and Environmental Science, 2016, 32, 311-322.	0.2	7
81	Asymbiotic Germination of <i>Phalaenopsis</i> cv. †Dublin' Seeds in Relation to Pollination Months and Nutrient Media. Notulae Scientia Biologicae, 2015, 7, 330-333.	0.1	Ο
82	Capsule formation and asymbiotic seed germination in some hybrids of Phalaenopsis, influenced by pollination season and capsule maturity. Physiology and Molecular Biology of Plants, 2015, 21, 341-347.	1.4	11
83	Synthetic seed production of medicinal plants: a review on influence of explants, encapsulation agent and matrix. Acta Physiologiae Plantarum, 2015, 37, 1.	1.0	96
84	In vitro regeneration of high value spice Crocus sativus L.: A concise appraisal. Journal of Applied Research on Medicinal and Aromatic Plants, 2015, 2, 124-133.	0.9	14
85	Bamboo: an overview on its genetic diversity and characterization. 3 Biotech, 2015, 5, 1-11.	1.1	75
86	Storage of encapsulated oil palm polyembryoids: influence of temperature and duration. In Vitro Cellular and Developmental Biology - Plant, 2015, 51, 118-124.	0.9	13
87	Stevia: A Comprehensive Review on Ethnopharmacological Properties and In Vitro Regeneration. Sugar Tech, 2015, 17, 95-106.	0.9	56
88	Improved cryopreservation of oil palm (Elaeis guineensis Jacq.) polyembryoids using droplet vitrification approach and assessment of genetic fidelity. Protoplasma, 2015, 252, 89-101.	1.0	24
89	Gibberellins - A Multifaceted Hormone in Plant Growth Regulatory Network. Current Protein and Peptide Science, 2015, 16, 406-412.	0.7	30
90	Influence of encapsulating agent and matr ix levels on synseed production of <i>Bacopa monnieri</i> (L.) Pennell. Medicinal Plants - International Journal of Phytomedicines and Related Industries, 2015, 7, 182.	0.1	6

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91	Asymbiotic Germination of <i>Phalaenopsis</i> cv. â€~Dublin' Seeds in Relation to Pollination Months and Nutrient Media. Notulae Scientia Biologicae, 2015, 7, .	0.1	0
92	Aloe vera: a review update on advancement ofin vitroculture. Acta Agriculturae Scandinavica - Section B Soil and Plant Science, 2014, 64, 1-12.	0.3	11
93	Selection of Rice Genotypes for Salinity Tolerance Through Morpho-Biochemical Assessment. Rice Science, 2014, 21, 288-298.	1.7	10
94	In vitro direct rhizogenesis from Gerbera jamesonii Bolus leaf. Acta Physiologiae Plantarum, 2014, 36, 3081-3087.	1.0	4
95	Screening of rice landraces for salinity tolerance at seedling stage through morphological and molecular markers. Physiology and Molecular Biology of Plants, 2014, 20, 411-423.	1.4	78
96	Genomic profile of the plants with pharmaceutical value. 3 Biotech, 2014, 4, 563-578.	1.1	29
97	Cryopreservation of immature Parkia speciosa Hassk. zygotic embryonic axes following desiccation or exposure to vitrification solution. Acta Physiologiae Plantarum, 2013, 35, 2629-2634.	1.0	5
98	Storability, post-storage conversion and genetic stability assessment of alginate-encapsulated shoot tips of monopodial orchid hybrid Aranda Wan Chark Kuan â€~Blue'Â×ÂVanda coerulea Grifft. ex. Lindl Plant Biotechnology Reports, 2013, 7, 257-266.	0.9	29
99	In vitro developmental study of oil palm (Elaeis guineensis Jacq.) polyembryoids from cell suspension using scanning electron microscopy. Acta Physiologiae Plantarum, 2013, 35, 1727-1733.	1.0	11
100	A potential retardant for lodging resistance in direct seeded rice (<i>Oryza sativa</i> L.). Canadian Journal of Plant Science, 2012, 92, 13-18.	0.3	21
101	Rapid micropropagation of monopodial orchid hybrid (Aranda Wan Chark Kuan †Blue'Â×ÂVanda coerulea) Growth Regulation, 2012, 68, 129-140.	Tj ETQq1 1.8	1 0.78431 29
102	Alginate-encapsulation, short-term storage and plant regeneration from protocorm-like bodies of Aranda Wan Chark Kuan †Blue'Â×ÂVanda coerulea Grifft. ex. Lindl. (Orchidaceae). Plant Growth Regulation, 2012, 68, 303-311.	1.8	33
103	Direct induction of protocorm-like bodies from shoot tips, plantlet formation, and clonal fidelity analysis in Anthurium andreanum cv. CanCan. Plant Growth Regulation, 2012, 67, 257-270.	1.8	28
104	Effect of loading and vitrification solutions on survival of cryopreserved oil palm polyembryoids. Plant Growth Regulation, 2012, 66, 101-109.	1.8	27
105	Influence of gibberellin A3 application, pH of the medium, photoperiod and temperature on the enhancement of in vitro flowering in Vitex negundo L. Plant Growth Regulation, 2012, 66, 203-209.	1.8	8
106	Morphology, flow cytometry and molecular assessment of ex-vitro grown micropropagated anthurium in comparison with seed germinated plants. African Journal of Biotechnology, 2011, 10, 13991-13998.	0.3	18
107	Induction and identification of tetraploids using in vitro colchicine treatment of Gerbera jamesonii Bolus cv. Sciella. Plant Cell, Tissue and Organ Culture, 2011, 106, 485-493.	1.2	79
108	A two step method for accelerated mass propagation of Dendrocalamus asper and their evaluation in field. Physiology and Molecular Biology of Plants, 2011, 17, 387-393.	1.4	21

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109	<i>InÂvitro</i> accelerated mass propagation and <i>ex vitro</i> evaluation of <i>Aloe vera</i> L. with aloin content and superoxide dismutase activity. Natural Product Research, 2011, 25, 1370-1378.	1.0	23
110	An elite protocol for accelerated quality-cloning in Gerbera jamesonii Bolus cv. Sciella. In Vitro Cellular and Developmental Biology - Plant, 2010, 46, 537-548.	0.9	20
111	Advances in Micropropagation of Selected Aromatic Plants: A Review on Vanilla and Strawberry. American Journal of Biochemistry and Molecular Biology, 2010, 1, 1-19.	0.6	7
112	An Overview on in vitro Culture of Genus Allium. American Journal of Plant Physiology, 2010, 5, 325-337.	0.2	11
113	Determination of Genetic Integrity in Long-term Micropropagated Plantlets of Allium ampeloprasum L. Using ISSR Markers. Biotechnology, 2010, 9, 218-223.	0.5	21
114	A Novel Strategy for in vitro Conservation of Aloe vera L. through Long Term Shoot Culture. Biotechnology, 2010, 9, 326-331.	0.5	18
115	Micropropagation of an Elite Medicinal Plant: Stevia rebaudiana Bert International Journal of Agricultural Research, 2010, 6, 40-48.	0.0	49
116	Tissue Culture of Anthurium andreanum: A Significant Review and Future Prospective. International Journal of Botany, 2010, 6, 207-219.	0.2	27
117	In vitro Mass Multiplication with Pure Genetic Identity in Anthurium andreanum Lind Plant Tissue Culture and Biotechnology, 2009, 18, 113-122.	0.1	23
118	Optimization of growing conditions, substrate-types and their concentrations for acclimatization and post-acclimatization growth of in vitro-raised flame lily (Gloriosa superba L.) plantlets. Vegetos, 0, , 1.	0.8	1
119	Cryo-conservation of Musa germplasms: progress and prospect. Conservation Genetics Resources, 0, , 1.	0.4	1
120	Biotechnology of banana (Musa spp.): multi-dimensional progress and prospect of in vitro–mediated system. Applied Microbiology and Biotechnology, 0, , .	1.7	3
121	How Do Extraction Methods and Biotechnology Influence Our Understanding and Usages of Ginsenosides?: A Critical View and Perspectives. , 0, , .		0