

# Armin Hallmann

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

4,749  
citations

196777

29  
h-index

175968

55  
g-index

58  
all docs

58  
docs citations

58  
times ranked

5449  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Molecular and cellular dynamics of early embryonic cell divisions in <i>Volvox carteri</i> . <i>Plant Cell</i> , 2022, 34, 1326-1353.   | 3.1 | 7         |
| 2  | Babo1, formerly Vop1 and Cop1/2, is no eyespot photoreceptor but a basal body protein illuminating cell division in <i>Volvox carteri</i> . <i>Plant Journal</i> , 2020, 102, 276-298.                                  | 2.8 | 5         |
| 3  | Targeted migration of pteropodin indicates extensive extracellular matrix dynamics in <i>Volvox carteri</i> . <i>Plant Journal</i> , 2020, 103, 2301-2317.  | 2.8 | 9         |
| 4  | Advances in Genetic Engineering of Microalgae. <i>Grand Challenges in Biology and Biotechnology</i> , 2019, 159-221.  | 2.4 | 1         |
| 5  | Two-component cyclase opsins of green algae are ATP-dependent and light-inhibited guanylyl cyclases. <i>BMC Biology</i> , 2018, 16, 144.  | 1.7 | 35        |
| 6  | Whole transcriptome RNA-Seq analysis reveals extensive cell type-specific compartmentalization in <i>Volvox carteri</i> . <i>BMC Biology</i> , 2017, 15, 111.   | 1.7 | 19        |
| 7  | Editorial (Thematic Issue Current Advances in Algae Biotechnology). <i>Current Biotechnology</i> , 2016, 4, 387-388.  | 0.2 | 1         |
| 8  | Distinct shape-shifting regimes of bowl-shaped cell sheets – embryonic inversion in the multicellular green alga <i>Pleodorina</i> . <i>BMC Developmental Biology</i> , 2016, 16, 35.                                   | 2.1 | 14        |
| 9  | Genome-wide identification and phylogenetic analysis of plant RNA binding proteins comprising both RNA recognition motifs and contiguous glycine residues. <i>Molecular Genetics and Genomics</i> , 2016, 291, 763-773. | 1.0 | 10        |
| 10 | Algal Photobiology: A Rich Source of Unusual Light Sensitive Proteins for Synthetic Biology and Optogenetics. <i>Methods in Molecular Biology</i> , 2016, 1408, 37-54.  | 0.4 | 4         |
| 11 | Algae Biotechnology – Green Cell-Factories on the Rise. <i>Current Biotechnology</i> , 2016, 4, 389-415.  | 0.2 | 28        |
| 12 | Editorial (Thematic Issue: Current Advances in Algae Biotechnology (Part II)). <i>Current Biotechnology</i> , 2016, 5, 91-92.   | 0.2 | 0         |
| 13 | Editorial (Thematic Issue: Current Advances in Algae Biotechnology (Part III)). <i>Current Biotechnology</i> , 2016, 5, 171-172.  | 0.2 | 0         |

14

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Algal photoreceptors: in vivo functions and potential applications. <i>Planta</i> , 2014, 239, 1-26.  | 1.6 | 104       |
| 20 | Stable nuclear transformation of <i>Pandorina morum</i> . <i>BMC Biotechnology</i> , 2014, 14, 65.  | 1.7 | 25        |
| 21 | Stable nuclear transformation of <i>Eudorina elegans</i> . <i>BMC Biotechnology</i> , 2013, 13, 11.   | 1.7 | 28        |
| 22 | Validation of reference genes for quantitative gene expression studies in <i>Volvox carteri</i> using real-time RT-PCR. <i>Molecular Biology Reports</i> , 2013, 40, 6691-6699.   | 1.0 | 30        |
| 23 | There is more than one way to turn a spherical cellular monolayer inside out: type B embryo inversion in <i>Volvox globator</i> . <i>BMC Biology</i> , 2011, 9, 89.   | 1.7 | 27        |
| 24 | Evolution of reproductive development in the volvocine algae. <i>Sexual Plant Reproduction</i> , 2011, 24, 97-112.  | 2.2 | 67        |
| 25 | How 5000 independent rowers coordinate their strokes in order to row into the sunlight: Phototaxis in the multicellular green alga <i>Volvox</i> . <i>BMC Biology</i> , 2010, 8, 103.   | 1.7 | 43        |
| 26 | Genomic Analysis of Organismal Complexity in the Multicellular Green Alga <i>Volvox carteri</i> . <i>Science</i> , 2010, 329, 223-226.  | 6.0 | 536       |
| 27 | Key elements of the retinoblastoma tumor suppressor pathway in <i>Volvox carteri</i> . <i>Communicative and Integrative Biology</i> , 2009, 2, 396-399.   | 0.6 | 8         |
| 28 | Channelrhodopsins of <i>Volvox carteri</i> Are Photochromic Proteins That Are Specifically Expressed in Somatic Cells under Control of Light, Temperature, and the Sex Inducer. <i>Plant Physiology</i> , 2009, 151, 347-366. | 2.3 | 51        |
| 29 | Stable nuclear transformation of <i>Gonium pectorale</i> . <i>BMC Biotechnology</i> , 2009, 9, 64.  | 1.7 | 55        |
| 30 | Retinoblastoma-related proteins in lower eukaryotes. <i>Communicative and Integrative Biology</i> , 2009, 2, 538-544.   | 0.6 | 7         |
| 31 | VCRPs, small cysteine-rich proteins, might be involved in extracellular signaling in the green alga <i>Volvox</i> . <i>Plant Signaling and Behavior</i> , 2008, 3, 124-127.   | 1.2 | 16        |
| 32 | A Gender-Specific Retinoblastoma-Related Protein in <i>Volvox carteri</i> Implies a Role for the Retinoblastoma Protein Family in Sexual Development. <i>Plant Cell</i> , 2008, 20, 2399-2419.                                | 3.1 | 32        |
| 33 | Functional integration of the HUP1 hexose symporter gene into the genome of <i>C. reinhardtii</i> : Impacts on biological H <sub>2</sub> production. <i>Journal of Biotechnology</i> , 2007, 131, 27-33.                      | 1.9 | 130       |
| 34 | A small cysteine-rich extracellular protein, VCRP, is inducible by the sex-inducer of <i>Volvox carteri</i> and by wounding. <i>Planta</i> , 2007, 226, 719-727.  | 1.6 | 6         |
| 35 | The <i>Chlamydomonas</i> Genome Reveals the Evolution of Key Animal and Plant Functions. <i>Science</i> , 2007, 318, 245-250.   | 6.0 | 2,354     |
| 36 | Characterization of a heat-shock-inducible hsp70 gene of the green alga <i>Volvox carteri</i> . <i>Gene</i> , 2006, 371, 112-120.   | 1.0 | 24        |

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|----|--|-----|-----------|
| 37 | The pherophorins: common, versatile building blocks in the evolution of extracellular matrix architecture in Volvocales. <i>Plant Journal</i> , 2006, 45, 292-307.   | 2.8 | 74        |
| 38 | Swapped green algal promoters: aphVIII-based gene constructs with <i>Chlamydomonas</i> flanking sequences work as dominant selectable markers in <i>Volvox</i> and vice versa. <i>Plant Cell Reports</i> , 2006, 25, 582-591.                | 2.8 | 32        |
| 39 | Morphogenesis in the Family Volvocaceae: Different Tactics for Turning an Embryo Right-side Out. <i>Protist</i> , 2006, 157, 445-461.  | 0.6 | 42        |
| 40 | Quantitative analysis of cell-type specific gene expression in the green alga <i>Volvox carteri</i> . <i>BMC Genomics</i> , 2006, 7, 321.  | 1.2 | 29        |
| 41 | Translational control of <i>regA</i> , a key gene controlling cell differentiation in <i>Volvox carteri</i> . <i>Development (Cambridge)</i> , 2006, 133, 4045-4051.   | 1.2 | 13        |
| 42 | Hsp70A and GlsA interact as partner chaperones to regulate asymmetric division in <i>Volvox</i> . <i>Developmental Biology</i> , 2005, 286, 537-548.   | 0.9 | 34        |
| 43 | Extracellular Matrix and Sex-Inducing Pheromone in <i>Volvox</i> . <i>International Review of Cytology</i> , 2003, 227, 131-182.   | 6.2 | 70        |
| 44 | An Extracellular Matrix-localized Metalloproteinase with an Exceptional QEXXH Metal Binding Site Prefers Copper for Catalytic Activity. <i>Journal of Biological Chemistry</i> , 2002, 277, 28280-28286.                                     | 1.6 | 33        |
| 45 | Transcriptional activation by the sexual pheromone and wounding: a new gene family from <i>Volvox</i> encoding modular proteins with (hydroxy)proline-rich and metalloproteinase homology domains. <i>Plant Journal</i> , 2001, 26, 583-593. | 2.8 | 36        |
| 46 | Response to the Sexual Pheromone and Wounding in the Green Alga <i>Volvox</i> : Induction of an Extracellular Glycoprotein Consisting Almost Exclusively of Hydroxyproline. <i>Journal of Biological Chemistry</i> , 1999, 274, 35023-35028. | 1.6 | 29        |
| 47 | Enzymes in the Extracellular Matrix of <i>Volvox</i> : an Inducible, Calcium-dependent Phosphatase with a Modular Composition. <i>Journal of Biological Chemistry</i> , 1999, 274, 1691-1697.  | 1.6 | 36        |
| 48 | Genetic engineering of the multicellular green alga <i>Volvox carteri</i> : a modified and multiplied bacterial antibiotic resistance gene as a dominant selectable marker. <i>Plant Journal</i> , 1999, 17, 99-109.                         | 2.8 | 56        |
| 49 | The highly efficient sex-inducing pheromone system of <i>Volvox</i> . <i>Trends in Microbiology</i> , 1998, 6, 185-189.  | 3.5 | 32        |
| 50 | Biochemistry of the Extracellular Matrix of <i>Volvox</i> . <i>International Review of Cytology</i> , 1998, 180, 51-85.  | 6.2 | 69        |
| 51 | Gene replacement by homologous recombination in the multicellular green alga <i>Volvox carteri</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997, 94, 7469-7474.                           | 3.3 | 56        |
| 52 | Differential targeting of closely related ECM glycoproteins: the pherophorin family from <i>Volvox</i> . <i>EMBO Journal</i> , 1997, 16, 25-34.  | 3.5 | 33        |
| 53 | The <i>Chlorella hexose/H+</i> symporter is a useful selectable marker and biochemical reagent when expressed in <i>Volvox</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 669-673. | 3.3 | 72        |
| 54 | The Evolutionary Conservation of a Novel Protein Modification, the Conversion of Cysteine to Serinesemialdehyde in Arylsulfatase from <i>Volvox carteri</i> . <i>FEBS Journal</i> , 1996, 238, 341-345.                                      | 0.2 | 63        |

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|----|--|-----|-----------|
| 55 | Pherophorins: a family of extracellular matrix glycoproteins from Volvox structurally related to the sex-inducing pheromone. <i>Planta</i> , 1995, 196, 781-787.   | 1.6 | 30        |
| 56 | Pherophorins: a family of extracellular matrix glycoproteins from Volvox structurally related to the sex-inducing pheromone. <i>Planta</i> , 1995, 196, 781.   | 1.6 | 15        |
| 57 | An inducible arylsulfatase of <i>Volvox carteri</i> with properties suitable for a reporter-gene system. Purification, characterization and molecular cloning. <i>FEBS Journal</i> , 1994, 221, 143-150. | 0.2 | 69        |
| 58 | A novel extensin that may organize extracellular matrix biogenesis in <i>Volvox carteri</i> . <i>EMBO Journal</i> , 1992, 11, 2055-2062.   | 3.5 | 64        |