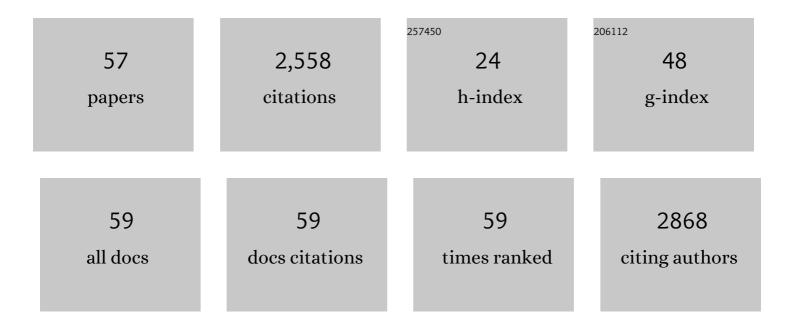
Johannes Gescher

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Bacterial transformation: distribution, shared mechanisms and divergent control. Nature Reviews Microbiology, 2014, 12, 181-196.	28.6	568
2	Dissimilatory Reduction of Extracellular Electron Acceptors in Anaerobic Respiration. Applied and Environmental Microbiology, 2012, 78, 913-921.	3.1	232
3	Periplasmic Electron Transfer via the <i>c</i> -Type Cytochromes MtrA and FccA of <i>Shewanella oneidensis</i> MR-1. Applied and Environmental Microbiology, 2009, 75, 7789-7796.	3.1	148
4	A dynamic periplasmic electron transfer network enables respiratory flexibility beyond a thermodynamic regulatory regime. ISME Journal, 2015, 9, 1802-1811.	9.8	134
5	Unbalanced fermentation of glycerol in Escherichia coli via heterologous production of an electron transport chain and electrode interaction in microbial electrochemical cells. Bioresource Technology, 2015, 186, 89-96.	9.6	96
6	Electron transfer process in microbial electrochemical technologies: The role of cell-surface exposed conductive proteins. Bioresource Technology, 2018, 255, 308-317.	9.6	85
7	Extracellular reduction of solid electron acceptors by <i>Shewanella oneidensis</i> . Molecular Microbiology, 2018, 109, 571-583.	2.5	83
8	Metabolic Engineering of Escherichia coli for Production of Mixed-Acid Fermentation End Products. Frontiers in Bioengineering and Biotechnology, 2014, 2, 16.	4.1	79
9	Characterization of microbial current production as a function of microbe–electrode-interaction. Bioresource Technology, 2014, 157, 284-292.	9.6	68
10	Acetoin production via unbalanced fermentation in <i>Shewanella oneidensis</i> . Biotechnology and Bioengineering, 2017, 114, 1283-1289.	3.3	66
11	Systematic screening of carbon-based anode materials for microbial fuel cells with Shewanella oneidensis MR-1. Bioresource Technology, 2013, 146, 386-392.	9.6	63
12	Investigation of the Electron Transport Chain to and the Catalytic Activity of the Diheme Cytochrome <i>c</i> Peroxidase CcpA of Shewanella oneidensis. Applied and Environmental Microbiology, 2011, 77, 6172-6180.	3.1	60
13	Electrode-assisted acetoin production in a metabolically engineered Escherichia coli strain. Biotechnology for Biofuels, 2017, 10, 65.	6.2	57
14	Characterisation of a stable laboratory co-culture of acidophilic nanoorganisms. Scientific Reports, 2017, 7, 3289.	3.3	57
15	Fineâ€ŧuning of choline metabolism is important for pneumococcal colonization. Molecular Microbiology, 2016, 100, 972-988.	2.5	44
16	Effects of wastewater constituents and operational conditions on the composition and dynamics of anodic microbial communities in bioelectrochemical systems. Bioresource Technology, 2018, 258, 376-389.	9.6	43
17	Resilience, Dynamics, and Interactions within a Model Multispecies Exoelectrogenic-Biofilm Community. Applied and Environmental Microbiology, 2017, 83, .	3.1	37
18	Efficient biochemical production of acetoin from carbon dioxide using Cupriavidus necator H16. Biotechnology for Biofuels, 2019, 12, 163.	6.2	37

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19	Involvement of the <i>Shewanella oneidensis</i> Decaheme Cytochrome MtrA in the Periplasmic Stability of the β-Barrel Protein MtrB. Applied and Environmental Microbiology, 2011, 77, 1520-1523.	3.1	34
20	Investigation of different nitrogen reduction routes and their key microbial players in wood chip-driven denitrification beds. Scientific Reports, 2017, 7, 17028.	3.3	33
21	Improvement of the electron transfer rate in Shewanella oneidensis MR-1 using a tailored periplasmic protein composition. Bioelectrochemistry, 2019, 129, 18-25.	4.6	31
22	Chromate Resistance Mechanisms in Leucobacter chromiiresistens. Applied and Environmental Microbiology, 2018, 84, .	3.1	29
23	From an extremophilic community to an electroautotrophic production strain: identifying a novel <i>Knallgas</i> bacterium as cathodic biofilm biocatalyst. ISME Journal, 2020, 14, 1125-1140.	9.8	28
24	Kyrpidia spormannii sp. nov., a thermophilic, hydrogen-oxidizing, facultative autotroph, isolated from hydrothermal systems at São Miguel Island, and emended description of the genus Kyrpidia. International Journal of Systematic and Evolutionary Microbiology, 2018, 68, 3735-3740.	1.7	28
25	Cultivation of Exoelectrogenic Bacteria in Conductive DNA Nanocomposite Hydrogels Yields a Programmable Biohybrid Materials System. ACS Applied Materials & Interfaces, 2020, 12, 14806-14813.	8.0	26
26	Perspectives on Potential Applications of Nanometal Derivatives in Gaseous Bioenergy Pathways: Mechanisms, Life Cycle, and Toxicity. ACS Sustainable Chemistry and Engineering, 2021, 9, 9563-9589.	6.7	26
27	Extracellular riboflavin induces anaerobic biofilm formation in Shewanella oneidensis. Biotechnology for Biofuels, 2021, 14, 130.	6.2	25
28	Influence of the Potential Carbon Sources for Field Denitrification Beds on Their Microbial Diversity and the Fate of Carbon and Nitrate. Frontiers in Microbiology, 2018, 9, 1313.	3.5	24
29	Biofilm systems as tools in biotechnological production. Applied Microbiology and Biotechnology, 2019, 103, 5095-5103.	3.6	24
30	Propionic acid production from food waste in batch reactors: Effect of pH, types of inoculum, and thermal pre-treatment. Bioresource Technology, 2021, 319, 124166.	9.6	24
31	NO ₃ ^{â^'} removal efficiency in field denitrification beds: key controlling factors and main implications. Environmental Microbiology Reports, 2019, 11, 316-329.	2.4	23
32	Investigation on the anaerobic propionate degradation by <i>Escherichia coli</i> K12. Molecular Microbiology, 2017, 103, 55-66.	2.5	20
33	Fineâ€ŧuning cellular levels of DprA ensures transformant fitness in the human pathogen <i>Streptococcus pneumoniae</i> . Molecular Microbiology, 2018, 109, 663-675.	2.5	20
34	Extracellular Electron Transfer and Biosensors. Advances in Biochemical Engineering/Biotechnology, 2017, 167, 15-38.	1.1	18
35	Addition of Riboflavin-Coupled Magnetic Beads Increases Current Production in Bioelectrochemical Systems via the Increased Formation of Anode-Biofilms. Frontiers in Microbiology, 2019, 10, 126.	3.5	15
36	Evaluation of productive biofilms for continuous lactic acid production. Biotechnology and Bioengineering, 2019, 116, 2687-2697.	3.3	15

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#	Article	IF	CITATIONS
37	Exploring the Effects of bolA in Biofilm Formation and Current Generation by Shewanella oneidensis MR-1. Frontiers in Microbiology, 2020, 11, 815.	3.5	15
38	The performance of microbial anodes in municipal wastewater: Pre-grown multispecies biofilm vs. natural inocula. Bioresource Technology, 2016, 221, 165-171.	9.6	12
39	Development of a production chain from vegetable biowaste to platform chemicals. Microbial Cell Factories, 2018, 17, 90.	4.0	12
40	Assessing and modeling biocatalysis in field denitrification beds reveals key influencing factors for future constructions. Water Research, 2021, 188, 116467.	11.3	11
41	Genomic Barcode-Based Analysis of Exoelectrogens in Wastewater Biofilms Grown on Anode Surfaces. Journal of Microbiology and Biotechnology, 2016, 26, 511-520.	2.1	11
42	Using planktonic microorganisms to supply the unpurified multi-copper oxidases laccase and copper efflux oxidases at a biofuel cell cathode. Bioresource Technology, 2014, 158, 231-238.	9.6	10
43	Biological biogas upgrading in a membrane biofilm reactor with and without organic carbon source. Bioresource Technology, 2021, 335, 125287.	9.6	10
44	<i>Metallibacterium scheffleri</i> : Genomic data reveal a versatile metabolism. FEMS Microbiology Ecology, 2017, 93, fix011.	2.7	9
45	Improving the Cathodic Biofilm Growth Capabilities of Kyrpidia spormannii EA-1 by Undirected Mutagenesis. Microorganisms, 2021, 9, 77.	3.6	9
46	The alternative sigma factor ÏfX mediates competence shut-off at the cell pole in Streptococcus pneumoniae. ELife, 2020, 9, .	6.0	9
47	Production of acetoin from renewable resources under heterotrophic and mixotrophic conditions. Bioresource Technology, 2021, 329, 124866.	9.6	8
48	Genetic engineering for enhanced productivity in bioelectrochemical systems. Advances in Applied Microbiology, 2020, 111, 1-31.	2.4	7
49	Complete Genome Sequence of <i>Kyrpidia</i> sp. Strain EA-1, a Thermophilic Knallgas Bacterium, Isolated from the Azores. Genome Announcements, 2018, 6, .	0.8	6
50	Enhanced production of propionic acid through acidic hydrolysis by choice of inoculum. Journal of Chemical Technology and Biotechnology, 2021, 96, 207-216.	3.2	6
51	Efficient Bioelectrochemical Conversion of Industrial Wastewater by Specific Strain Isolation and Community Adaptation. Frontiers in Bioengineering and Biotechnology, 2019, 7, 23.	4.1	4
52	Accelerated Electro-Fermentation of Acetoin in Escherichia coli by Identifying Physiological Limitations of the Electron Transfer Kinetics and the Central Metabolism. Microorganisms, 2020, 8, 1843.	3.6	4
53	Developing Rhodobacter sphaeroides for cathodic biopolymer production. Bioresource Technology, 2021, 336, 125340.	9.6	4
54	A Micrarchaeon Isolate Is Covered by a Proteinaceous S-Layer. Applied and Environmental Microbiology, 2022, 88, AEM0155321.	3.1	4

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#	Article	lF	CITATIONS
55	Soluble versions of outer membrane cytochromes function as exporters for heterologously produced cargo proteins. Microbial Cell Factories, 2019, 18, 216.	4.0	2
56	Nanowired electrodes as outer membrane cytochrome-independent electronicÂconduit in Shewanella oneidensis. IScience, 2022, 25, 103853.	4.1	2
57	Biochemical Characterization of Recombinant Isocitrate Dehydrogenase and Its Putative Role in the Physiology of an Acidophilic Micrarchaeon. Microorganisms, 2021, 9, 2318.	3.6	1