

Bo Jin

List of Publications by Year in descending order

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121
papers

11,136
citations

50276

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h-index

30087

103
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123
all docs

123
docs citations

123
times ranked

14821
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-response quadratic model for optimisation of electricity generation and chlorophenol degradation by electro-degradative <i>Bacillus subtilis</i> in microbial fuel cell system. Environmental Technology (United Kingdom), 2022, 43, 2867-2880.	2.2	3
2	Stormwater monitoring using on-line UV-Vis spectroscopy. Environmental Science and Pollution Research, 2022, 29, 19530-19539.	5.3	1
3	Determination of coagulant dosages for process control using online UV-vis spectra of raw water. Journal of Water Process Engineering, 2022, 45, 102526.	5.6	12
4	A statistical approach to boost soluble expression of E. coli-derived virus-like particles in shake-flask cultivation. Journal of Biotechnology, 2022, 347, 56-66.	3.8	2
5	Prognostic modelling for industrial asset health management. Safety and Reliability, 2022, 41, 45-97.	0.6	1
6	Applications of Online UV-Vis Spectrophotometer for Drinking Water Quality Monitoring and Process Control: A Review. Sensors, 2022, 22, 2987.	3.8	29
7	Highly Selective Two-Electron Electrocatalytic CO ₂ Reduction on Single-Atom Cu Catalysts. Small Structures, 2021, 2, 2000058.	12.0	93
8	Evaluation of the impact of suspended particles on the UV absorbance at 254 nm (UV254) measurements using a submersible UV-Vis spectrophotometer. Environmental Science and Pollution Research, 2021, 28, 12576-12586.	5.3	4
9	The preparation of porosity modified porous organic frameworks via kaolin loading and its improved aromatic organic compounds removal performance. Microporous and Mesoporous Materials, 2021, 315, 110855.	4.4	4
10	Smart Scheduling of Pump Control in Wastewater Networks Based on Electricity Spot Market Prices. Water Conservation Science and Engineering, 2021, 6, 79-94.	1.7	5
11	Exploring hierarchical porous silica-supported Ag ₃ PO ₄ as high-efficient and environmental-friendly photocatalytic disinfectant. Journal of Materials Science, 2021, 56, 14257-14269.	3.7	2
12	Efficiency and mechanism of reducing ammonia volatilization in alkaline farmland soil using Bacillus amyloliquefaciens biofertilizer. Environmental Research, 2021, 202, 111672.	7.5	21
13	Influence of physicochemical characteristics of feed solution on water permeability in forward osmosis desalination system. Desalination, 2021, 517, 115266.	8.2	1
14	The Ampoule Method: A Pathway towards Controllable Synthesis of Electrocatalysts for Water Electrolysis. Chemistry - A European Journal, 2020, 26, 3898-3905.	3.3	5
15	Co-monomer polymer anion exchange resin for removing Cr(VI) contaminants: Adsorption kinetics, mechanism and performance. Science of the Total Environment, 2020, 709, 136002.	8.0	56
16	O ₂ /N ₂ -responsive microgels as functional draw agents for gas-triggering forward osmosis desalination. Journal of Membrane Science, 2020, 595, 117584.	8.2	7
17	Reliability modelling with redundancy – A case study of power generation engines in a wastewater treatment plant. Quality and Reliability Engineering International, 2020, 36, 784-796.	2.3	5
18	Ref: EATJ-D-19-00148 - prediction of remaining useful life of naval structures using a covariate-base hazard model. Australian Journal of Structural Engineering, 2020, 21, 208-217.	1.1	2

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19	Graphene-encapsulated nickel-copper bimetallic nanoparticle catalysts for electrochemical reduction of CO ₂ to CO. <i>Chemical Communications</i> , 2020, 56, 11275-11278.	4.1	23
20	Engineering of Broadband Nanoporous Semiconductor Photonic Crystals for Visible-Light-Driven Photocatalysis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57079-57092.	8.0	18
21	Alternative particle compensation techniques for online water quality monitoring using UV-Vis spectrophotometer. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2020, 204, 104074.	3.5	24
22	Interfacial Biocatalytic Performance of Nanofiber-Supported Î²-Galactosidase for Production of Galacto-Oligosaccharides. <i>Catalysts</i> , 2020, 10, 81.	3.5	7
23	Frontispiece: The Ampoule Method: A Pathway towards Controllable Synthesis of Electrocatalysts for Water Electrolysis. <i>Chemistry - A European Journal</i> , 2020, 26, .	3.3	0
24	Synergistic catalysis between atomically dispersed Fe and a pyrrolic-N-C framework for CO ₂ electroreduction. <i>Nanoscale Horizons</i> , 2019, 4, 1411-1415.	8.0	21
25	Bioelectrochemical Reaction Kinetics, Mechanisms, and Pathways of Chlorophenol Degradation in MFC Using Different Microbial Consortia. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 17263-17272.	6.7	27
26	Contemporaneous oxidation state manipulation to accelerate intermediate desorption for overall water electrolysis. <i>Chemical Communications</i> , 2019, 55, 8313-8316.	4.1	7
27	Non-metal Single-Iodine-Atom Electrocatalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie</i> , 2019, 131, 12380-12385.	2.0	23
28	Non-metal Single-Iodine-Atom Electrocatalysts for the Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12252-12257.	13.8	175
29	Interfacial nickel nitride/sulfide as a bifunctional electrode for highly efficient overall water/seawater electrolysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8117-8121.	10.3	150
30	Light-confining semiconductor nanoporous anodic alumina optical microcavities for photocatalysis. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22514-22529.	10.3	23
31	Non-ionic copolymer microgels as high-performance draw materials for forward osmosis desalination. <i>Journal of Membrane Science</i> , 2019, 572, 480-488.	8.2	29
32	Cerium oxide doped nanocomposite membranes for reverse osmosis desalination. <i>Chemosphere</i> , 2019, 218, 974-983.	8.2	46
33	Gas-responsive cationic microgels for forward osmosis desalination. <i>Chemical Engineering Journal</i> , 2018, 347, 424-431.	12.7	28
34	rGO/CNTs Supported Pyrolysis Derivatives of [Mo ₃ S ₁₃] ²⁺ Clusters as Promising Electrocatalysts for Enhancing Hydrogen Evolution Performances. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 6920-6931.	6.7	17
35	Microbial community and bioelectrochemical activities in MFC for degrading phenol and producing electricity: Microbial consortia could make differences. <i>Chemical Engineering Journal</i> , 2018, 332, 647-657.	12.7	137
36	Investigating the bacterial community and amoebae population in rural domestic wastewater reclamation for irrigation. <i>Journal of Environmental Sciences</i> , 2018, 70, 97-105.	6.1	14

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37	Charge State Manipulation of Cobalt Selenide Catalyst for Overall Seawater Electrolysis. <i>Advanced Energy Materials</i> , 2018, 8, 1801926.	19.5	264
38	Synergistic Enhancement in Antibacterial Activity of Core/Shell/Shell SiO ₂ /ZnO/Ag ₃ PO ₄ Nanoparticles. <i>ChemNanoMat</i> , 2018, 4, 972-981.	2.8	10
39	Effect of the dosage ratio and the viscosity of PAC/PDMDAAC on coagulation performance and membrane fouling in a hybrid coagulation-ultrafiltration process. <i>Chemosphere</i> , 2017, 173, 288-298.	8.2	38
40	Recirculating Spiral Bioreactor for Galactooligosaccharide Production Using Polymer Nanofiber- β -galactosidase Assembly. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 12479-12487.	3.7	3
41	Polyethylenimine modified silica nanoparticles enhance interfacial interactions and desalination performance of thin film nanocomposite membranes. <i>Journal of Membrane Science</i> , 2017, 541, 19-28.	8.2	55
42	Microengineered 3D cell-laden thermoresponsive hydrogels for mimicking cell morphology and orientation in cartilage tissue engineering. <i>Biotechnology and Bioengineering</i> , 2017, 114, 217-231.	3.3	61
43	Understanding functionalized silica nanoparticles incorporation in thin film composite membranes: Interactions and desalination performance. <i>Journal of Membrane Science</i> , 2017, 521, 53-64.	8.2	58
44	Distributions and Sources of Polycyclic Aromatic Hydrocarbons (PAHs) in Soils around a Chemical Plant in Shanxi, China. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 1198.	2.6	71
45	A biotech-systematic approach to select fungi for bioconversion of winery biomass wastes to nutrient-rich feed. <i>Chemical Engineering Research and Design</i> , 2016, 103, 60-68.	5.6	16
46	Poly(<i>N</i> -isopropylacrylamide) hydrogel/chitosan scaffold hybrid for three-dimensional stem cell culture and cartilage tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2016, 104, 2764-2774.	4.0	52
47	Thermoresponsive Acidic Microgels as Functional Draw Agents for Forward Osmosis Desalination. <i>Environmental Science & Technology</i> , 2016, 50, 4221-4228.	10.0	41
48	An integrated statistic and systematic approach to study correlation of synthesis condition and desalination performance of thin film composite membranes. <i>Desalination</i> , 2016, 394, 138-147.	8.2	31
49	Chemical impact of catholytes on <i>Bacillus subtilis</i> -catalysed microbial fuel cell performance for degrading 2,4-dichlorophenol. <i>Chemical Engineering Journal</i> , 2016, 301, 103-114.	12.7	34
50	A Robust Strategy for "Living" Growth of Lead Sulfide Quantum Dots. <i>ChemNanoMat</i> , 2016, 2, 49-53.	2.8	4
51	Thermoresponsive cationic copolymer microgels as high performance draw agents in forward osmosis desalination. <i>Journal of Membrane Science</i> , 2016, 518, 273-281.	8.2	25
52	Hollow mesoporous silica nanoparticles: A peculiar structure for thin film nanocomposite membranes. <i>Journal of Membrane Science</i> , 2016, 519, 1-10.	8.2	72
53	High-performance size exclusion chromatography with a multi-wavelength absorbance detector study on dissolved organic matter characterisation along a water distribution system. <i>Journal of Environmental Sciences</i> , 2016, 44, 235-243.	6.1	17
54	Biofuels from food processing wastes. <i>Current Opinion in Biotechnology</i> , 2016, 38, 97-105.	6.6	72

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55	Manipulation of nanofiber-based β -galactosidase nanoenvironment for enhancement of galacto-oligosaccharide production. <i>Journal of Biotechnology</i> , 2016, 222, 56-64.	3.8	30
56	Evaluation of physicochemical methods in enhancing the adsorption performance of natural zeolite as low-cost adsorbent of methylene blue dye from wastewater. <i>Journal of Cleaner Production</i> , 2016, 118, 197-209.	9.3	127
57	Dendrimer-like nanoparticles based β -galactosidase assembly for enhancing its selectivity toward transgalactosylation. <i>Enzyme and Microbial Technology</i> , 2016, 84, 68-77.	3.2	18
58	Influence of polymer molecular weight on the in vitro cytotoxicity of poly (N-isopropylacrylamide). <i>Materials Science and Engineering C</i> , 2016, 59, 509-513.	7.3	30
59	Characterisation of dissolved organic matter in stormwater using high-performance size exclusion chromatography. <i>Journal of Environmental Sciences</i> , 2016, 42, 236-245.	6.1	17
60	Synthesis, characterisation and application of TiO ₂ @zeolite nanocomposites for the advanced treatment of industrial dye wastewater. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2015, 50, 288-296.	5.3	92
61	Nanobiocatalyst advancements and bioprocessing applications. <i>Journal of the Royal Society Interface</i> , 2015, 12, 20140891.	3.4	197
62	Hybridising nitrogen doped titania with kaolinite: A feasible catalyst for a semi-continuous photo-degradation reactor system. <i>Chemical Engineering Journal</i> , 2015, 279, 939-947.	12.7	8
63	Enhancing enzyme stability and metabolic functional ability of β -galactosidase through functionalized polymer nanofiber immobilization. <i>Bioprocess and Biosystems Engineering</i> , 2015, 38, 1915-1923.	3.4	27
64	Functionalized thermo-responsive microgels for high performance forward osmosis desalination. <i>Water Research</i> , 2015, 70, 385-393.	11.3	62
65	Study of microbial perchlorate reduction: Considering of multiple pH, electron acceptors and donors. <i>Journal of Hazardous Materials</i> , 2015, 285, 228-235.	12.4	44
66	Evaluation of Titanium dioxide photocatalytic technology for the treatment of reactive Black 5 dye in synthetic and real greywater effluents. <i>Journal of Cleaner Production</i> , 2015, 89, 196-202.	9.3	93
67	Activating natural bentonite as a cost-effective adsorbent for removal of Congo-red in wastewater. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 653-661.	5.8	133
68	Fabricating polystyrene fiber-dehydrogenase assemble as a functional biocatalyst. <i>Enzyme and Microbial Technology</i> , 2015, 68, 15-22.	3.2	18
69	Disinhibition of excessive volatile fatty acids to improve the efficiency of autothermal thermophilic aerobic sludge digestion by chemical approach. <i>Bioresource Technology</i> , 2015, 175, 120-127.	9.6	20
70	A biodegradable thermosensitive hydrogel with tuneable properties for mimicking three-dimensional microenvironments of stem cells. <i>RSC Advances</i> , 2014, 4, 63951-63961.	3.6	43
71	Bioconversion of wastewater from sweet potato starch production to <i>Paenibacillus polymyxa</i> biofertilizer for tea plants. <i>Scientific Reports</i> , 2014, 4, 4131.	3.3	23
72	A genetic and metabolic approach to redirection of biochemical pathways of <i>Clostridium butyricum</i> for enhancing hydrogen production. <i>Biotechnology and Bioengineering</i> , 2013, 110, 338-342.	3.3	50

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73	Terrimonas pekingensis sp. nov., isolated from bulking sludge, and emended descriptions of the genus Terrimonas , Terrimonas ferruginea , Terrimonas lutea and Terrimonas aquatica. International Journal of Systematic and Evolutionary Microbiology, 2013, 63, 1658-1664.	1.7	34
74	Sol-Gel Synthesis of Inorganic Mesostructured Composite Photocatalyst for Water Purification: An Insight Into the Synthesis Fundamentals, Reaction, and Binding Mechanisms. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2012, 42, 68-75.	0.6	12
75	Prospects of nanoparticleâ€™DNA binding and its implications in medical biotechnology. Biotechnology Advances, 2012, 30, 1721-1732.	11.7	67
76	Impact of fullerene particle interaction on biochemical activities in fermenting <i>Zymomonas mobilis</i>. Environmental Toxicology and Chemistry, 2012, 31, 712-716.	4.3	5
77	Adsorption characteristics, isotherm, kinetics, and diffusion of modified natural bentonite for removing diazo dye. Chemical Engineering Journal, 2012, 187, 79-88.	12.7	398
78	Photocatalytic treatment of high concentration carbamazepine in synthetic hospital wastewater. Journal of Hazardous Materials, 2012, 199-200, 135-142.	12.4	85
79	Independent duplications of Î±-amylase in different strains of Aspergillus oryzae. Fungal Genetics and Biology, 2011, 48, 438-444.	2.1	22
80	DNA Exposure to Buckminsterfullerene (C60): Toward DNA Stability, Reactivity, and Replication. Environmental Science & Technology, 2011, 45, 6608-6616.	10.0	25
81	Genetic manipulation of butyrate formation pathways in Clostridium butyricum. Journal of Biotechnology, 2011, 155, 269-274.	3.8	56
82	Metabolic flux network and analysis of fermentative hydrogen production. Biotechnology Advances, 2011, 29, 375-387.	11.7	108
83	Evaluating the photodegradation of Carbamazepine in a sequential batch photoreactor system: Impacts of effluent organic matter and inorganic ions. Chemical Engineering Journal, 2011, 174, 595-602.	12.7	48
84	Using H-titanate nanofiber catalysts for water disinfection: Understanding and modelling of the inactivation kinetics and mechanisms. Chemical Engineering Science, 2011, 66, 6525-6535.	3.8	13
85	Bacterial inactivation kinetics of a photo-disinfection system using novel titania-impregnated kaolinite photocatalyst. Chemical Engineering Journal, 2011, 171, 16-23.	12.7	58
86	Photocatalytic activity of TiO2 nanofibers in simulated and real municipal effluents. Catalysis Today, 2011, 161, 147-152.	4.4	31
87	CFD modelling of hydrodynamics and degradation kinetics in an annular slurry photocatalytic reactor for wastewater treatment. Chemical Engineering Journal, 2011, 172, 84-95.	12.7	41
88	An integrated MBRâ€™TiO2 photocatalysis process for the removal of Carbamazepine from simulated pharmaceutical industrial effluent. Bioresource Technology, 2011, 102, 7012-7015.	9.6	84
89	Insight into removal kinetic and mechanisms of anionic dye by calcined clay materials and lime. Journal of Hazardous Materials, 2010, 177, 420-427.	12.4	76
90	Evaluation of the physical properties and photodegradation ability of titania nanocrystalline impregnated onto modified kaolin. Microporous and Mesoporous Materials, 2010, 132, 201-209.	4.4	35

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91	Bacterial inactivation kinetics, regrowth and synergistic competition in a photocatalytic disinfection system using anatase titanate nanofiber catalyst. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 214, 1-9.	3.9	30
92	Metabolic flux analysis of hydrogen production network by <i>Clostridium butyricum</i> W5: Effect of pH and glucose concentrations. <i>International Journal of Hydrogen Energy</i> , 2010, 35, 6681-6690.	7.1	77
93	Development of a pilot fluidised bed reactor system with a formulated clay-lime mixture for continuous removal of chemical pollutants from wastewater. <i>Chemical Engineering Journal</i> , 2010, 158, 535-541.	12.7	14
94	Use of Filamentous Fungi for Wastewater Treatment and Production of High Value Fungal Byproducts: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2010, 40, 400-449.	12.8	140
95	DNA binding and aggregation by carbon nanoparticles. <i>Biochemical and Biophysical Research Communications</i> , 2010, 393, 571-576.	2.1	58
96	Recent developments in photocatalytic water treatment technology: A review. <i>Water Research</i> , 2010, 44, 2997-3027.	11.3	4,343
97	An adsorption-photocatalysis hybrid process using multi-functional-nanoporous materials for wastewater reclamation. <i>Water Research</i> , 2010, 44, 5385-5397.	11.3	85
98	Process optimization of biological hydrogen production from molasses by a newly isolated <i>Clostridium butyricum</i> W5. <i>Journal of Bioscience and Bioengineering</i> , 2009, 107, 138-144.	2.2	66
99	Enhancement of l(+)-lactic acid production using acid-adapted precultures of <i>Rhizopus arrhizus</i> in a bubble column reactor. <i>Journal of Bioscience and Bioengineering</i> , 2009, 108, 344-347.	2.2	5
100	Kinetic study and equilibrium isotherm analysis of Congo Red adsorption by clay materials. <i>Chemical Engineering Journal</i> , 2009, 148, 354-364.	12.7	784
101	Synthesis and characterisation of novel titania impregnated kaolinite nano-photocatalyst. <i>Microporous and Mesoporous Materials</i> , 2009, 117, 233-242.	4.4	109
102	Enhancing removal efficiency of anionic dye by combination and calcination of clay materials and calcium hydroxide. <i>Journal of Hazardous Materials</i> , 2009, 171, 941-947.	12.4	66
103	Optimisation of an annular photoreactor process for degradation of Congo Red using a newly synthesized titania impregnated kaolinite nano-photocatalyst. <i>Separation and Purification Technology</i> , 2009, 67, 355-363.	7.9	116
104	Application of H-titanate nanofibers for degradation of Congo Red in an annular slurry photoreactor. <i>Chemical Engineering Journal</i> , 2009, 150, 49-54.	12.7	64
105	A new approach to optimise an annular slurry photoreactor system for the degradation of Congo Red: Statistical analysis and modelling. <i>Chemical Engineering Journal</i> , 2009, 152, 158-166.	12.7	44
106	Adsorption of congo red by three Australian kaolins. <i>Applied Clay Science</i> , 2009, 43, 465-472.	5.2	243
107	Wine Industry Residues. , 2009, , 293-311.		12
108	Production of L(+)-Lactic Acid Using Acid-Adapted Precultures of <i>Rhizopus arrhizus</i> in a Stirred Tank Reactor. <i>Applied Biochemistry and Biotechnology</i> , 2008, 149, 265-276.	2.9	16

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109	Production of fungal biomass protein using microfungi from winery wastewater treatment. <i>Bioresource Technology</i> , 2008, 99, 3871-3876.	9.6	40
110	Impact of carbon and nitrogen sources on hydrogen production by a newly isolated <i>Clostridium butyricum</i> W5. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 4998-5005.	7.1	58
111	Production of lactic acid from renewable materials by <i>Rhizopus</i> fungi. <i>Biochemical Engineering Journal</i> , 2007, 35, 251-263.	3.6	208
112	Direct fermentation of potato starch in wastewater to lactic acid by <i>Rhizopus oryzae</i> . <i>Biotechnology and Bioprocess Engineering</i> , 2004, 9, 245-251.	2.6	10
113	Flow regime, hydrodynamics, floc size distribution and sludge properties in activated sludge bubble column, air-lift and aerated stirred reactors. <i>Chemical Engineering Science</i> , 2004, 59, 2379-2388.	3.8	43
114	<i>Rhizopus arrhizus</i> a producer for simultaneous saccharification and fermentation of starch waste materials to l(+)-lactic acid. <i>Biotechnology Letters</i> , 2003, 25, 1983-1987.	2.2	45
115	Biotechnological production of lactic acid integrated with potato wastewater treatment by <i>Rhizopus arrhizus</i> . <i>Journal of Chemical Technology and Biotechnology</i> , 2003, 78, 899-906.	3.2	65
116	A comprehensive pilot plant system for fungal biomass protein production and wastewater reclamation. <i>Journal of Environmental Management</i> , 2002, 6, 179-189.	1.7	53
117	A bioprocessing mode for simultaneous fungal biomass protein production and wastewater treatment using an external air-lift bioreactor. <i>Journal of Chemical Technology and Biotechnology</i> , 2001, 76, 1041-1048.	3.2	23
118	Title is missing!. <i>World Journal of Microbiology and Biotechnology</i> , 2001, 17, 265-272.	3.6	23
119	Production of fungal protein and glucoamylase by <i>Rhizopus oligosporus</i> from starch processing wastewater. <i>Process Biochemistry</i> , 1999, 34, 59-65.	3.7	77
120	Screening and selection of microfungi for microbial biomass protein production and water reclamation from starch processing wastewater. <i>Journal of Chemical Technology and Biotechnology</i> , 1999, 74, 106-110.	3.2	40
121	A reliability cost optimisation model for maintenance scheduling of wastewater treatment's power generation engines. <i>Quality and Reliability Engineering International</i> , 0, , .	2.3	1