Qiu Gen Zhang

List of Publications by Year
in descending order

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126 papers	5,596 citations	47 h-index	66 g-index
		47006	102487
126 all docs	126 docs citations	126 times ranked	4073 citing authors

#	Article	IF	Citations
1	Side-chain-type anion exchange membranes bearing pendant quaternary ammonium groups via flexible spacers for fuel cells. Journal of Materials Chemistry A, 2016, 4, 13938-13948.	10.3	177
2	Synthesis and characterization of cross-linked quaternized poly(vinyl alcohol)/chitosan composite anion exchange membranes for fuel cells. Journal of Power Sources, 2008, 183, 447-453.	7.8	160
3	Imidazolium-Functionalized Poly(arylene ether sulfone) Anion-Exchange Membranes Densely Grafted with Flexible Side Chains for Fuel Cells. ACS Applied Materials & Interfaces, 2016, 8, 25279-25288.	8.0	140
4	Anti-trade-off in dehydration of ethanol by novel PVA/APTEOS hybrid membranes. Journal of Membrane Science, 2007, 287, 237-245.	8.2	120
5	Enhancement of hydroxide conductivity by grafting flexible pendant imidazolium groups into poly(arylene ether sulfone) as anion exchange membranes. Journal of Materials Chemistry A, 2015, 3, 18105-18114.	10.3	116
6	Cellulose nanofiber intermediary to fabricate highly-permeable ultrathin nanofiltration membranes for fast water purification. Journal of Membrane Science, 2017, 524, 174-185.	8.2	113
7	Phenolphthalein-based Poly(arylene ether sulfone nitrile)s Multiblock Copolymers As Anion Exchange Membranes for Alkaline Fuel Cells. ACS Applied Materials & Interfaces, 2015, 7, 8284-8292.	8.0	107
8	Orderly sandwich-shaped graphene oxide/Nafion composite membranes for direct methanol fuel cells. Journal of Membrane Science, 2015, 492, 58-66.	8.2	102
9	Quaternized triblock polymer anion exchange membranes with enhanced alkaline stability. Journal of Membrane Science, 2017, 541, 358-366.	8.2	98
10	Subâ€10 nm Wide Cellulose Nanofibers for Ultrathin Nanoporous Membranes with High Organic Permeation. Advanced Functional Materials, 2016, 26, 792-800.	14.9	85
11	Crosslinked side-chain-type anion exchange membranes with enhanced conductivity and dimensional stability. Journal of Membrane Science, 2017, 539, 24-33.	8.2	85
12	Anion exchange membranes with well-developed conductive channels: Effect of the functional groups. Journal of Membrane Science, 2018, 564, 298-307.	8.2	84
13	Pervaporation performance of quaternized poly(vinyl alcohol) and its crosslinked membranes for the dehydration of ethanol. Journal of Membrane Science, 2009, 335, 68-75.	8.2	82
14	Dehydration of Isopropanol by Novel Poly(vinyl alcohol)â^'Silicone Hybrid Membranes. Industrial & Engineering Chemistry Research, 2007, 46, 913-920.	3.7	81
15	Pervaporation removal of volatile organic compounds from aqueous solutions using the highly permeable <scp>PIM</scp>â€1 membrane. AICHE Journal, 2016, 62, 842-851.	3.6	81
16	Multi-cation crosslinked anion exchange membranes from microporous TrÃ¶ger's base copolymers. Journal of Materials Chemistry A, 2018, 6, 13302-13311.	10.3	81
17	Pervaporation dehydration of ethyl acetate/ethanol/water azeotrope using chitosan/poly (vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock	8.2	80
18	Anion Conductive Triblock Copolymer Membranes with Flexible Multication Side Chain. ACS Applied Materials & Interfaces, 2018, 10, 18327-18337.	8.0	80

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19	Fe₃O₄/poly(N-Isopropylacrylamide)/Chitosan Composite Microspheres with Multiresponsive Properties. Industrial & Engineering Chemistry Research, 2008, 47, 7700-7706.	3.7	78
20	Poly (2,6-dimethyl-1,4-phenylene oxide)/ionic liquid functionalized graphene oxide anion exchange membranes for fuel cells. Journal of Membrane Science, 2018, 552, 367-376.	8.2	78
21	Pervaporation of waterâ€“ethanol and methanolâ€“MTBE mixtures using poly (vinyl alcohol)/cellulose acetate blended membranes. Journal of Membrane Science, 2013, 448, 93-101.	8.2	76
22	Alkali-stable partially fluorinated poly(arylene ether) anion exchange membranes with a claw-type head for fuel cells. Journal of Materials Chemistry A, 2018, 6, 12455-12465.	10.3	74
23	Side-chain-type anion exchange membranes bearing pendent imidazolium-functionalized poly(phenylene) Tj ETQq1 1 0.784314 rgBT /O	8.2	73
24	Highly conductive anion exchange membranes with long flexible multication spacer. Journal of Membrane Science, 2018, 553, 209-217.	8.2	73
25	Interpenetrating anion exchange membranes using poly(1-vinylimidazole) as bifunctional crosslinker for fuel cells. Journal of Membrane Science, 2016, 518, 295-304.	8.2	72
26	Microstructure dependent diffusion of waterâ€“ethanol in swollen poly(vinyl alcohol): A molecular dynamics simulation study. Chemical Engineering Science, 2009, 64, 334-340.	3.8	70
27	Effect of Fluorene Groups on the Properties of Multiblock Poly(arylene ether sulfone)s-Based Anion-Exchange Membranes. ACS Applied Materials & Interfaces, 2014, 6, 6776-6785.	8.0	69
28	A Fully Flexible Potential Model for Carbon Dioxide. Chinese Journal of Chemical Engineering, 2009, 17, 268-272.	3.5	66
29	Composite hybrid membrane of chitosanâ€“silica in pervaporation separation of MeOH/DMC mixtures. Journal of Colloid and Interface Science, 2007, 316, 580-588.	9.4	64
30	Triblock copolymer anion exchange membranes bearing alkyl-tethered cycloaliphatic quaternary ammonium-head-groups for fuel cells. Journal of Power Sources, 2017, 365, 282-292.	7.8	64
31	Clustered multi-imidazolium side chains functionalized alkaline anion exchange membranes for fuel cells. Journal of Membrane Science, 2017, 541, 214-223.	8.2	63
32	Ultrathin freestanding nanoporous membranes prepared from polystyrene nanoparticles. Journal of Materials Chemistry, 2011, 21, 1684-1688.	6.7	62
33	Molecular simulation of CO2/CH4 permeabilities in polyamideâ€“imide isomers. Journal of Membrane Science, 2010, 348, 204-212.	8.2	60
34	Benzylmethyl-containing poly(arylene ether nitrile) as anion exchange membranes for alkaline fuel cells. Journal of Membrane Science, 2015, 481, 9-18.	8.2	60
35	Highly conductive fluorine-based anion exchange membranes with robust alkaline durability. Journal of Materials Chemistry A, 2020, 8, 13065-13076.	10.3	59
36	Highly ionic-conductive crosslinked cardo poly(arylene ether sulfone)s as anion exchange membranes for alkaline fuel cells. Journal of Membrane Science, 2015, 491, 138-148.	8.2	58

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37	A novel poly(dimethyl siloxane)/poly(oligosilsesquioxanes) composite membrane for pervaporation desulfurization. Journal of Membrane Science, 2011, 366, 335-341.	8.2	56
38	Poly(arylene ether nitrile) anion exchange membranes with dense flexible ionic side chain for fuel cells. Journal of Membrane Science, 2018, 550, 254-265.	8.2	55
39	Fluorene-containing poly(arylene ether sulfone)s as anion exchange membranes for alkaline fuel cells. Journal of Membrane Science, 2014, 457, 29-38.	8.2	54
40	Cross-Linked Poly(vinylbenzyl chloride) Anion Exchange Membranes with Long Flexible Multihead for Fuel Cells. ACS Applied Energy Materials, 2018, 1, 3479-3487.	5.1	54
41	Orderly branched anion exchange membranes bearing long flexible multi-cation side chain for alkaline fuel cells. Journal of Membrane Science, 2019, 589, 117247.	8.2	53
42	Hydrophobic side chains to enhance hydroxide conductivity and physicochemical stabilities of side-chain-type polymer AEMs. Journal of Membrane Science, 2019, 585, 90-98.	8.2	53
43	Metal in situ surface functionalization of polymer-grafted-carbon nanotube composite membranes for fast efficient nanofiltration. Journal of Materials Chemistry A, 2017, 5, 583-592.	10.3	51
44	Dual hydrophobic modifications toward anion exchange membranes with both high ion conductivity and excellent dimensional stability. Journal of Membrane Science, 2020, 595, 117521.	8.2	51
45	Enhanced performance of anion exchange membranes via crosslinking of ion cluster regions for fuel cells. Journal of Power Sources, 2016, 327, 56-66.	7.8	50
46	Graphene oxide nanosheets to improve permeability and selectivity of PIM-1 membrane for carbon dioxide separation. Journal of Industrial and Engineering Chemistry, 2018, 63, 296-302.	5.8	49
47	Rigid crosslinkers towards constructing highly-efficient ion transport channels in anion exchange membranes. Journal of Membrane Science, 2021, 619, 118806.	8.2	48
48	Pervaporation separation of MeOH/DMC mixtures using STA/CS hybrid membranes. Journal of Membrane Science, 2008, 315, 74-81.	8.2	47
49	Anion exchange membranes with dense N-spirocyclic cations as side-chain. Journal of Membrane Science, 2020, 595, 117560.	8.2	47
50	UV-crosslinked chitosan/polyvinylpyrrolidone blended membranes for pervaporation. RSC Advances, 2013, 3, 1855-1861.	3.6	46
51	Dehydration of acetic acid by pervaporation using SPEK-C/PVA blend membranes. Journal of Membrane Science, 2008, 320, 416-422.	8.2	45
52	High-performance tetracyclic aromatic anion exchange membranes containing twisted binaphthyl for fuel cells. Journal of Membrane Science, 2022, 655, 120578.	8.2	45
53	Crown ether bridged anion exchange membranes with robust alkaline durability. Journal of Membrane Science, 2019, 578, 230-238.	8.2	44
54	Multiple Enhancement Effects of Crown Ether in TrÃ¶gerâ€™s Base Polymers on the Performance of Anion Exchange Membranes. ACS Applied Materials & Interfaces, 2020, 12, 24806-24816.	8.0	44

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55	Highly conductive fluorinated poly(biphenyl piperidinium) anion exchange membranes with robust durability. Journal of Membrane Science, 2022, 645, 120200.	8.2	43
56	Hollow nanoporous Au/Pt coreâ€“shell catalysts with nanochannels and enhanced activities towards electro-oxidation of methanol and ethanol. International Journal of Hydrogen Energy, 2014, 39, 8246-8256.	7.1	42
57	Self-crosslinked anion exchange membranes by bromination of benzylmethyl-containing poly(sulfone)s for direct methanol fuel cells. International Journal of Hydrogen Energy, 2012, 37, 11383-11393.	7.1	41
58	Anion exchange membranes based on carbazole-containing polyolefin for direct methanol fuel cells. Journal of Membrane Science, 2016, 497, 99-107.	8.2	41
59	LBL assembled polyelectrolyte nanofiltration membranes with tunable surface charges and high permeation by employing a nanosheet sacrificial layer. Journal of Materials Chemistry A, 2017, 5, 14819-14827.	10.3	41
60	Photosynergetic Electrochemical Synthesis of Graphene Oxide. Journal of the American Chemical Society, 2020, 142, 6516-6520.	13.7	41
61	Characterization and Permeation Performance of Novel Organicâ^'Inorganic Hybrid Membranes of Poly(vinyl Alcohol)/1,2-Bis(triethoxysilyl)ethane. Journal of Physical Chemistry B, 2008, 112, 16559-16565.	2.6	40
62	Towards improved antifouling ability and separation performance of polyethersulfone ultrafiltration membranes through poly(ethylenimine) grafting. Journal of Membrane Science, 2018, 554, 125-133.	8.2	40
63	Structure and permeation of organicâ€“inorganic hybrid membranes composed of poly(vinyl alcohol) and polysilisesquioxane. Journal of Materials Chemistry, 2008, 18, 4646.	6.7	38
64	Ultrathin self-assembled anionic polymer membranes for superfast size-selective separation. Nanoscale, 2013, 5, 11028.	5.6	38
65	[Cu2(bdc)2(bpy)]n/SPES-C mixed matrix membranes for separation of methanol/methyl tert-butyl ether mixtures. Journal of Membrane Science, 2014, 454, 36-43.	8.2	37
66	Pervaporation Purification of Ethylene Glycol Using the Highly Permeable PIM-1 Membrane. Journal of Chemical & Engineering Data, 2016, 61, 579-586.	1.9	37
67	Dehydration of acetic acid using sulfonation cardo polyetherketone (SPEK-C) membranes. Journal of Membrane Science, 2008, 308, 171-179.	8.2	34
68	Pervaporation separation of methanol/methyl tert-butyl ether mixtures using polyarylethersulfone with cardo membranes. Separation and Purification Technology, 2013, 107, 211-218.	7.9	34
69	Pervaporation characteristics and structure of poly(vinyl alcohol)/poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 182 Td	2.6	33
70	Fullerene-regulated graphene oxide nanosheet membranes with well-defined laminar nanochannels for precise molecule sieving. Journal of Materials Chemistry A, 2018, 6, 22590-22598.	10.3	33
71	Toward improved hydrophilicity of polymers of intrinsic microporosity for pervaporation dehydration of ethylene glycol. Separation and Purification Technology, 2017, 174, 166-173.	7.9	32
72	Highly permeable cellulose acetate nanofibrous composite membranes by freeze-extraction. Journal of Membrane Science, 2014, 454, 339-345.	8.2	31

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73	Fluorene-containing poly (arylene ether sulfone) block copolymers: Synthesis, characterization and application. Journal of Membrane Science, 2014, 464, 72-79.	8.2	30
74	Borate crosslinking of polydopamine grafted carbon nanotubes membranes for protein separation. Chemical Engineering Journal, 2018, 337, 110-121.	12.7	30
75	Novel crosslinked aliphatic anion exchange membranes with pendant pentafluorophenyl groups. Electrochimica Acta, 2019, 321, 134634.	5.2	29
76	Two-dimensional metal-organic framework-graphene oxide hybrid nanocomposite proton exchange membranes with enhanced proton conduction. Journal of Colloid and Interface Science, 2021, 594, 593-603.	9.4	29
77	Loose nanofiltration membranes based on interfacial glutaraldehyde-amine polymerization for fast and highly selective dye/salt separation. Chemical Engineering Journal, 2022, 450, 138057.	12.7	29
78	Structure-related diffusion in poly(methyl methacrylate)/polyhedral oligomeric silsesquioxanes composites: A molecular dynamics simulation study. Journal of Membrane Science, 2009, 342, 105-112.	8.2	28
79	Facile construction of crosslinked all-carbon-backbone anion-exchange membranes with robust durability. Journal of Materials Chemistry A, 2018, 6, 24831-24840.	10.3	28
80	Anion conductive membrane performance facilitation via tethering flexible with rigid backbones using oscillational chain. Journal of Power Sources, 2019, 436, 226856.	7.8	28
81	Composite membranes prepared from glutaraldehyde cross-linked sulfonated cardo polyetherketone and its blends for the dehydration of acetic acid by pervaporation. Journal of Membrane Science, 2008, 325, 184-191.	8.2	27
82	Fabrication of hollow platinumâ€“ruthenium coreâ€“shell catalysts with nanochannels and enhanced performance for methanol oxidation. Journal of Power Sources, 2015, 299, 443-450.	7.8	27
83	Effects of annealing on the physico-chemical structure and permeation performance of novel hybrid membranes of poly(vinyl alcohol)/Î³-aminopropyl-triethoxysilane. Microporous and Mesoporous Materials, 2008, 110, 379-391.	4.4	26
84	Nickel hydroxide nanosheet membranes with fast water and organics transport for molecular separation. Nanoscale, 2016, 8, 18428-18435.	5.6	26
85	Highly efficient polymerâ€“MOF nanocomposite membrane for pervaporation separation of water/methanol/MTBE ternary mixture. Chemical Engineering Research and Design, 2017, 117, 688-697.	5.6	26
86	Self-recoverable Pdâ€“Ru/TiO₂ nanocatalysts with ultrastability towards ethanol electrooxidation. Nanoscale, 2019, 11, 3311-3317.	5.6	25
87	Crosslinked naphthalene-based triblock polymer anion exchange membranes for fuel cells. Journal of Membrane Science, 2021, 636, 119569.	8.2	25
88	Pervaporation dehydration of water/ethanol/ethyl acetate mixtures using poly(vinyl alcohol)â€“silica hybrid membranes. Journal of Applied Polymer Science, 2012, 126, 778-787.	2.6	24
89	Facile preparation of homogeneous polyelectrolyte complex membranes for separation of methanol/methyl tert-butyl ether mixtures. Journal of Membrane Science, 2013, 447, 246-252.	8.2	24
90	Comb-shaped phenolphthalein-based poly(ether sulfone)s as anion exchange membranes for alkaline fuel cells. RSC Advances, 2016, 6, 17269-17279.	3.6	24

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91	Imidazolium-functionalized anion exchange membranes using poly(ether sulfone)s as macrocrosslinkers for fuel cells. RSC Advances, 2017, 7, 27342-27353.	3.6	24
92	Anion exchange membranes based on poly(vinyl alcohol) and quaternized polyethyleneimine for direct methanol fuel cells. Journal of Applied Polymer Science, 2013, 128, 3853-3860.	2.6	23
93	Microstructure-related performances of poly(vinyl alcohol)-silica hybrid membranes: a molecular dynamics simulation study. Journal of Materials Chemistry, 2012, 22, 10860.	6.7	22
94	Polyarylethersulfone with cardo/poly (vinyl pyrrolidone) blend membrane for pervaporation of methanol/methyl tert-butyl ether mixtures. Journal of Membrane Science, 2013, 448, 55-61.	8.2	22
95	Separation of methanol/methyl tert-butyl ether using sulfonated polyarylethersulfone with cardo (SPES-C) membranes. Journal of Membrane Science, 2013, 430, 180-187.	8.2	22
96	Facile preparation and separation performances of cellulose nanofibrous membranes. Journal of Applied Polymer Science, 2016, 133, .	2.6	22
97	Amino-functionalized poly(vinyl alcohol) membranes for enhanced water permselectivity. Journal of Membrane Science, 2010, 360, 276-283.	8.2	20
98	CuOâ€filled aminomethylated polysulfone hybrid membranes for deep desulfurization. Journal of Applied Polymer Science, 2013, 130, 3718-3725.	2.6	20
99	Ultrathin sulfonated mesoporous interlayer facilitates to prepare highly-permeable polyamide nanofiltration membranes. Journal of Membrane Science, 2022, 652, 120507.	8.2	20
100	Preparation of Cell-Embedded Colloidosomes in an Oil-in-Water Emulsion. ACS Applied Materials & Interfaces, 2013, 5, 10682-10689.	8.0	17
101	Pervaporation of Methanolâ€“Ethylene Glycol Mixture over Organicâ€“Inorganic Hybrid Membranes. Industrial & Engineering Chemistry Research, 2013, 52, 7541-7549.	3.7	16
102	Well-dispersed Pdâ€“Sn nanocatalyst anchored on TiO2 nanosheets with enhanced activity and durability for ethanol electarooxidation. Electrochimica Acta, 2019, 320, 134588.	5.2	16
103	A hydrophobic pervaporation membrane with hierarchical microporosity for high-efficient dehydration of alcohols. Chemical Engineering Science, 2019, 206, 489-498.	3.8	16
104	Two-dimensional PdSn/TiO2-GO towards ethanol electrooxidation catalyst with high stability. International Journal of Hydrogen Energy, 2021, 46, 19129-19139.	7.1	15
105	End-group crosslinked hexafluorobenzene contained anion exchange membranes. International Journal of Hydrogen Energy, 2021, 46, 39921-39931.	7.1	15
106	Analyzing solubility and diffusion of solvents in novel hybrid materials of poly(vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (alcoho 2007, 17, 4889.	6.7	14
107	Tetraamminezinc complex integrated interpenetrating polymer network nanocomposite membrane for phosphorous recovery. AICHE Journal, 2019, 65, 755-765.	3.6	14
108	One-pot synthesis of poly(N-isopropylacrylamide)/chitosan composite microspheres via microemulsion. Carbohydrate Polymers, 2012, 90, 690-695.	10.2	13

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109	Facile Method to Prepare Monodispersed Hollow PtAu Sphere with TiO₂ Colloidal Sphere as a Template. Industrial & Engineering Chemistry Research, 2013, 52, 7432-7438.	3.7	13
110	Chitosan/polyvinylpyrrolidoneâ€silica hybrid membranes for pervaporation separation of methanol/ethylene glycol azeotrope. Journal of Applied Polymer Science, 2013, 129, 3178-3184.	2.6	13
111	Colloidosomes from poly(N-vinyl-2-pyrrolidone)-coated poly(N-isopropylacrylamide-co-acrylic acid) microgels via UV crosslinking. RSC Advances, 2014, 4, 9445.	3.6	13
112	Ultrafine polystyrene nanofibers and its application in nanofibrous membranes. Chemical Engineering Journal, 2015, 264, 329-335.	12.7	13
113	Novel H-PdSnNi Catalyst with Enhanced Ethanol Electrooxidation Performance in Alkaline Medium. Electrochimica Acta, 2018, 259, 1145-1153.	5.2	13
114	Reactive microporous copolymers with excellent film-forming ability for ion exchange membranes. Journal of Power Sources, 2020, 452, 227827.	7.8	12
115	Enhanced Performance of Sulfonated Poly(ether ether Ketone) Hybrid Membranes by Introducing Sulfated MOF-808/Graphene Oxide Composites. ACS Applied Energy Materials, 2021, 4, 9664-9672.	5.1	9
116	Hollow fiber ultrafiltration membranes of poly(biphenyl-trifluoroacetone). Journal of Membrane Science, 2022, 659, 120779.	8.2	7
117	Ultrathin pHâ€Sensitive Nanoporous Membranes for Superfast Sizeâ€Selective Separation. Chemistry - an Asian Journal, 2015, 10, 1133-1137.	3.3	6
118	Ternary supportless Pd@Cd-Ag core-shell as advanced nanocatalysts towards electro-oxidation performance of ethanol. Journal of Alloys and Compounds, 2021, 868, 158955.	5.5	6
119	Structure and pervaporation performance of novel quaternized poly(vinyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (alcoho 1121-1126.	2.6	5
120	Influence of phenolphthalein groups on the structure and properties of poly(arylene ether sulfone) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	3.6	4
121	Polyacrylonitrile mesoporous composite membranes with high separation efficiency prepared by fast freeze-extraction process. Journal of Industrial and Engineering Chemistry, 2017, 49, 61-68.	5.8	2
122	Nanosheetâ€templated graphene oxide membranes for fast molecule separation. AICHE Journal, 0, , .	3.6	2
123	Oneâ€pot synthesis of composite microspheres with coreâ€shell structure. Journal of Polymer Science Part A, 2013, 51, 2702-2708.	2.3	1
124	Crystal structure of 4-(4-methylphenyl)-2,2'-bipyridine-6-carboxylic acid- N,N-dimethylformamide (1:0.5), C18H14N2O2Â·0.5C3H7NO, C39H35N5O5. Zeitschrift Fur Kristallographie - New Crystal Structures, 2013, 228, 51-52.	0.3	1
125	A Versatile Approach Towards the Fast Fabrication of Highly-Permeable Polymer Mesoporous Membranes. ChemistrySelect, 2016, 1, 3049-3053.	1.5	1
126	The Policy Systems of Low-Carbon Economy for Jiangxi Province. Applied Mechanics and Materials, 0, 361-363, 892-897.	0.2	0