

# Ahmad Azmin Mohamad

## List of Publications by Citations

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121  
papers

2,349  
citations

24  
h-index

45  
g-index

132  
ext. papers

2,861  
ext. citations

3.6  
avg, IF

5.85  
L-index

#	Paper	IF	Citations
121	Advances of aqueous rechargeable lithium-ion battery: A review. <i>Journal of Power Sources</i> , <b>2015</b> , 274, 237-251	8.9	267
120	Effect of pH on ZnO nanoparticle properties synthesized by sol-gel centrifugation. <i>Journal of Alloys and Compounds</i> , <b>2010</b> , 499, 231-237	5.7	196
119	Ionic conductivity studies of poly(vinyl alcohol) alkaline solid polymer electrolyte and its use in nickel-zinc cells. <i>Solid State Ionics</i> , <b>2003</b> , 156, 171-177	3.3	161
118	Zn/gelled 6M KOH/O <sub>2</sub> zinc-air battery. <i>Journal of Power Sources</i> , <b>2006</b> , 159, 752-757	8.9	107
117	Protonic battery based on a plasticized chitosan-NH <sub>4</sub> NO <sub>3</sub> solid polymer electrolyte. <i>Journal of Power Sources</i> , <b>2006</b> , 163, 382-385	8.9	99
116	Synthesis of NiO Nanoparticles through Sol-gel Method. <i>Procedia Chemistry</i> , <b>2016</b> , 19, 626-631		83
115	MnO nanoflower/graphite cathode for rechargeable aqueous zinc ion batteries. <i>Scientific Reports</i> , <b>2019</b> , 9, 8441	4.9	75
114	Effect of temperature on the performance of proton batteries based on chitosan-NH <sub>4</sub> NO <sub>3</sub> EC membrane. <i>Journal of Membrane Science</i> , <b>2008</b> , 325, 653-657	9.6	67
113	Electrochemical properties of aluminum anodes in gel electrolyte-based aluminum-air batteries. <i>Corrosion Science</i> , <b>2008</b> , 50, 3475-3479	6.8	58
112	DFT + U calculations for electronic, structural, and optical properties of ZnO wurtzite structure: A review. <i>Results in Physics</i> , <b>2020</b> , 16, 102829	3.7	50
111	Plasticized alkaline solid polymer electrolyte system. <i>Materials Letters</i> , <b>2007</b> , 61, 3096-3099	3.3	45
110	Electrical conductivity studies on PVA/PVP-KOH alkaline solid polymer blend electrolyte. <i>Ionics</i> , <b>2005</b> , 11, 418-422	2.7	43
109	Effect of Adding Carbon Black to a Porous Zinc Anode in a Zinc-Air Battery. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, A715-A721	3.9	41
108	Studies of alkaline solid polymer electrolyte and mechanically alloyed polycrystalline Mg <sub>2</sub> Ni for use in nickel metal hydride batteries. <i>Journal of Alloys and Compounds</i> , <b>2002</b> , 337, 208-213	5.7	37
107	Absorbency and conductivity of quasi-solid-state polymer electrolytes for dye-sensitized solar cells: A characterization review. <i>Journal of Power Sources</i> , <b>2016</b> , 329, 57-71	8.9	35
106	Effect of adding potassium hydroxide to an agar binder for use as the anode in Zn-air batteries. <i>Corrosion Science</i> , <b>2009</b> , 51, 3025-3029	6.8	33
105	Systematic gap analysis of carbon nanotube-based lithium-ion batteries and electrochemical capacitors. <i>Renewable and Sustainable Energy Reviews</i> , <b>2017</b> , 75, 644-659	16.2	32

104	Corrosion resistance of ternary Sn-9Zn-xIn solder joint in alkaline solution. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 661, 516-525	5.7	31
103	Corrosion measurement of Sn $\bar{n}$ lead-free solders in 6 M KOH solution. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2014</b> , 47, 820-826	4.6	29
102	Poly(2,6-Dimethyl-1,4-Phenylene Oxide)-Based Hydroxide Exchange Separator Membranes for Zinc-Air Battery. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	27
101	Effect of polarizations on Sn $\bar{n}$ solders alloys in alkaline electrolyte. <i>Journal of Alloys and Compounds</i> , <b>2014</b> , 606, 278-287	5.7	27
100	Synthesis of zinc oxide by zinc-air system. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 484, 934-938	5.7	27
99	Effect of storage time on the properties of PVA $\bar{K}$ OH alkaline solid polymer electrolyte system. <i>Ionics</i> , <b>2006</b> , 12, 57-61	2.7	25
98	Mechanically alloyed Mg <sub>2</sub> Ni for metal-hydride-air secondary battery. <i>Journal of Power Sources</i> , <b>2003</b> , 115, 161-166	8.9	24
97	Electronic Properties of ZnO Nanoparticles Synthesized by Sol-gel Method: A LDA+U Calculation and Experimental Study. <i>Procedia Chemistry</i> , <b>2016</b> , 19, 125-132		24
96	Corrosion Behavior of Sn-3.0Ag-0.5Cu Lead-Free Solder in Potassium Hydroxide Electrolyte. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 3742-3747	7.3	23
95	Bacto agar-based gel polymer electrolyte. <i>Ionics</i> , <b>2012</b> , 18, 359-364	2.7	23
94	Physical properties of quasi-solid-state polymer electrolytes for dye-sensitised solar cells: A characterisation review. <i>Solar Energy</i> , <b>2019</b> , 190, 434-452	6.8	22
93	The production of nickel-alumina composite coating via electroplating. <i>Ionics</i> , <b>2009</b> , 15, 603-607	2.7	22
92	Chitosan-ammonium acetate-ethylene carbonate membrane for proton batteries. <i>Arabian Journal of Chemistry</i> , <b>2017</b> , 10, S3687-S3698	5.9	21
91	Interfacial Reaction of Sn-Ag-Cu Lead-Free Solder Alloy on Cu: A Review. <i>Advances in Materials Science and Engineering</i> , <b>2013</b> , 2013, 1-11	1.5	21
90	Effect of NH <sub>4</sub> I and I <sub>2</sub> concentration on agar gel polymer electrolyte properties for a dye-sensitized solar cell. <i>Ionics</i> , <b>2013</b> , 19, 1185-1194	2.7	20
89	Characterizations of nickel mesh and nickel foam current collectors for supercapacitor application. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 6838-6846	5.9	19
88	Sol-gel synthesized ZnO for optoelectronics applications: a characterization review. <i>Materials Research Express</i> , <b>2017</b> , 4, 122001	1.7	19
87	Hardness profiles of Sn-3.0Ag-0.5Cu-TiO <sub>2</sub> composite solder by nanoindentation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2016</b> , 669, 178-186	5.3	18

86	Synthesis and electrochemical behavior of LiFePO <sub>4</sub> /C with an air electrode in an aqueous lithium ion battery. <i>Ceramics International</i> , <b>2014</b> , 40, 13089-13096	5.1	18
85	Tapioca binder for porous zinc anodes electrode in zinc-air batteries. <i>Journal of King Saud University, Engineering Sciences</i> , <b>2015</b> , 27, 217-224	2.2	16
84	Porous membrane based on chitosan/SiO <sub>2</sub> for coin cell proton battery. <i>Ceramics International</i> , <b>2015</b> , 41, 5484-5491	5.1	15
83	Effect of exposure to alkaline solution on Sn-Zn solder joints. <i>Journal of Materials Processing Technology</i> , <b>2015</b> , 219, 164-172	5.3	15
82	Corrosion characterization of Sn-Zn solder: a review. <i>Soldering and Surface Mount Technology</i> , <b>2019</b> , 31, 52-67	1.4	14
81	Effect of TiO <sub>2</sub> nanoparticles on the horizontal hardness properties of Sn-3.0Ag-0.5Cu-1.0TiO <sub>2</sub> composite solder. <i>Ceramics International</i> , <b>2019</b> , 45, 18563-18571	5.1	14
80	A study on the hydrogen storage properties and reaction mechanism of Na <sub>3</sub> AlH <sub>6</sub> LiBH <sub>4</sub> composite system. <i>International Journal of Hydrogen Energy</i> , <b>2018</b> , 43, 8365-8374	6.7	14
79	Efficient diagnostics of the electronic and optical properties of defective ZnO nanoparticles synthesized using the sol-gel method: experimental and theoretical studies. <i>Materials Research Express</i> , <b>2017</b> , 4, 085908	1.7	14
78	Centrifuge and storage precipitation of TiO <sub>2</sub> nanoparticles by the sol-gel method. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 651, 557-564	5.7	13
77	Morphology study of electrodeposited zinc from zinc sulfate solutions as anode for zinc-air and zinc-carbon batteries. <i>Journal of King Saud University, Engineering Sciences</i> , <b>2015</b> , 27, 43-48	2.2	13
76	Sago Gel Polymer Electrolyte for Zinc-Air Battery. <i>Advances in Science and Technology</i> , <b>2010</b> , 72, 305-308	0.1	13
75	A direct borohydride fuel cell employing a sago gel polymer electrolyte. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 11229-11236	6.7	13
74	Electrical properties of plasticized chitosan-lithium imide with oleic acid-based polymer electrolytes for lithium rechargeable batteries. <i>Ionics</i> , <b>2005</b> , 11, 460-463	2.7	13
73	First-principles calculation on electronic properties of zinc oxide by zinc-air system. <i>Journal of King Saud University, Engineering Sciences</i> , <b>2017</b> , 29, 278-283	2.2	12
72	Corrosion Behavior of Corroded Sn-3.0Ag-0.5Cu Solder Alloy. <i>Procedia Chemistry</i> , <b>2016</b> , 19, 847-854		12
71	Synthesis of Zinc Oxide by Sol-Gel Method for Photoelectrochemical Cells. <i>SpringerBriefs in Materials</i> , <b>2014</b> ,	0.5	12
70	Interfacial reaction of a Sn-3.0Ag-0.5Cu thin film during solder reflow. <i>Soldering and Surface Mount Technology</i> , <b>2013</b> , 25, 15-23	1.4	12
69	The evaluation of nickel deposit obtained via Watts electrolyte at ambient temperature <b>2010</b> , 7, 815-820		12

68	ZnO nanoparticles and poly(acrylic) acid-based polymer gel electrolyte for photo electrochemical cell. <i>Journal of Sol-Gel Science and Technology</i> , <b>2012</b> , 64, 184-192	2.3	11
67	Effects of Mn doping on the structural, morphological, electronic and optical properties of ZnO thin films by sol-gel spin coating method: An experimental and DFT+U study. <i>Physica B: Condensed Matter</i> , <b>2020</b> , 577, 411766	2.8	11
66	Chitosan as biopolymer binder for graphene in supercapacitor electrode. <i>Results in Physics</i> , <b>2021</b> , 25, 104244	3.7	10
65	Effect of KOH concentration in the gel polymer electrolyte for direct borohydride fuel cell. <i>Journal of Applied Polymer Science</i> , <b>2012</b> , 123, 2662-2666	2.9	9
64	Synthesis of LiCoO <sub>2</sub> Prepared by Sol-gel Method. <i>Procedia Chemistry</i> , <b>2016</b> , 19, 861-864		9
63	Effect of styrene-acrylonitrile content on 0.5 M NaI/0.05 M I <sub>2</sub> liquid electrolyte encapsulation for dye-sensitized solar cells. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 2103-2112	2.6	8
62	Effect of temperature on the conductivity, structural, and morphology of PVA-based alkaline solid polymer electrolyte. <i>Ionics</i> , <b>2006</b> , 12, 263-268	2.7	8
61	A durable rechargeable zinc-air battery via self-supported MnO <sub>x</sub> -S air electrode. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 883, 160935	5.7	8
60	Recent Characterisation of Sol-Gel Synthesised TiO <sub>2</sub> Nanoparticles <b>2017</b> ,		7
59	Degradation of LiCoO <sub>2</sub> in aqueous lithium-air batteries. <i>International Journal of Energy Research</i> , <b>2017</b> , 41, 289-296	4.5	7
58	Proton Batteries with Hydroponics Gel as Gel Polymer Electrolyte. <i>Electrochemical and Solid-State Letters</i> , <b>2007</b> , 10, A139		7
57	Ethylene Glycol/Ethanol Anolyte for High Capacity Alkaline Aluminum-Air Battery With Dual-Electrolyte Configuration. <i>Frontiers in Energy Research</i> , <b>2020</b> , 8,	3.8	7
56	Benchmarking superfast electrodeposited bimetallic (Ni, Fe, Co, and Cu) hydroxides for oxygen evolution reaction. <i>Journal of Alloys and Compounds</i> , <b>2022</b> , 889, 161738	5.7	7
55	Microstructural analysis of Sn-3.0Ag-0.5Cu-TiO <sub>2</sub> composite solder alloy after selective electrochemical etching. <i>Materials Research Express</i> , <b>2020</b> , 7, 016583	1.7	6
54	Synthesis of LiCoO <sub>2</sub> via sol-gel method for aqueous rechargeable lithium batteries. <i>Ionics</i> , <b>2018</b> , 24, 403-412	4.7	6
53	Hardness testing of lead-free solders: a review. <i>Soldering and Surface Mount Technology</i> , <b>2017</b> , 29, 203-224		6
52	Conductivity studies of plasticized anhydrous PEO-KOH alkaline solid polymer electrolyte. <i>Ionics</i> , <b>2008</b> , 14, 59-62	2.7	6
51	Ni-MH battery based on plasticized alkaline solid polymer electrolytes. <i>Ionics</i> , <b>2008</b> , 14, 415-420	2.7	6

50	Stability enhancement of zinc-ion batteries using nonaqueous electrolytes. <i>Batteries and Supercaps</i> ,	5.6	6
49	Thickness effect on the properties of Mn-doped ZnO thin films synthesis by sol-gel and comparison to first-principles calculations. <i>Ceramics International</i> , <b>2021</b> , 47, 17276-17285	5.1	6
48	On the verification of sol-gel-derived ZnO nanoparticle properties using first-principles calculation. <i>Journal of Sol-Gel Science and Technology</i> , <b>2016</b> , 80, 56-67	2.3	6
47	Three-Dimensional Fibrous Iron as Anode Current Collector for Rechargeable Zinc-Air Batteries. <i>Energies</i> , <b>2020</b> , 13, 1429	3.1	5
46	Self-aligned TiO <sub>2</sub> nanotube arrays produced by air-cathode as electrode. <i>Journal of Alloys and Compounds</i> , <b>2011</b> , 509, 8707-8715	5.7	5
45	A Study on the Effects of the Discharge Current and Ambient Temperature on the Formation of Zinc Oxide Synthesized via the Zinc-Air System. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, E184	3.9	5
44	ZnCl <sub>2</sub> - and NH <sub>4</sub> Cl-hydroponics gel electrolytes for zinc-carbon batteries. <i>Journal of Power Sources</i> , <b>2008</b> , 176, 393-395	8.9	5
43	Recent advances in oxygen electrocatalysts based on tunable structural polymers. <i>Materials Today Chemistry</i> , <b>2022</b> , 23, 100632	6.2	5
42	Acceptor and Donor Dopants in Potassium Sodium Niobate Based Ceramics. <i>Frontiers in Materials</i> , <b>2020</b> , 7,	4	5
41	Improving cylinder-type LiFePO <sub>4</sub> battery performance via control of internal resistance. <i>Materials Research Express</i> , <b>2018</b> , 5, 045512	1.7	4
40	Corrosion of Sn-3.0Ag-0.5Cu thin films on Cu substrates in alkaline solution. <i>Soldering and Surface Mount Technology</i> , <b>2014</b> , 26, 79-86	1.4	4
39	Carboxymethyl cellulose-based polyelectrolyte as cationic exchange membrane for zinc-iodine batteries. <i>Heliyon</i> , <b>2020</b> , 6, e05391	3.6	4
38	Post-Corrosion Mechanical Analysis of Sn-Zn Alloys: A Short Review. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 701, 012049	0.4	4
37	Corrosion Properties of Sn-9Zn Solder in Acidic Solution. <i>Materials Science Forum</i> , <b>2017</b> , 888, 365-372	0.4	3
36	Effect of Corrosion in Alkaline Solution to the Microstructure and Mechanical Properties of Cu/Sn-9Zn/Cu. <i>Procedia Chemistry</i> , <b>2016</b> , 19, 247-252		3
35	Degradation in polymer Ni-MH battery. <i>Ionics</i> , <b>2005</b> , 11, 294-300	2.7	3
34	ZnO: Photoelectrochemical Cells Analysis. <i>SpringerBriefs in Materials</i> , <b>2014</b> , 41-50	0.5	3
33	Synthesis and electrochemical performance of LiV <sub>3</sub> O <sub>8</sub> /graphene for aqueous lithium batteries. <i>Ionics</i> , <b>2020</b> , 26, 2277-2292	2.7	3

32	Structural phase instability, mixed-phase, and energy band gap change in BiFeO <sub>3</sub> under lattice strain effect from first-principles investigation. <i>Ceramics International</i> , <b>2021</b> , 47, 12592-12599	5.1	3
31	Corrosion measurement on shear strength of Cu/Sn <sub>9</sub> Zn/Cu lap joints. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2015</b> , 66, 195-203	4.6	2
30	Effects of crosshead speeds on solder strength of Cu/Sn <sub>9</sub> Zn/Cu lap joints. <i>Journal of King Saud University, Engineering Sciences</i> , <b>2015</b> , 27, 225-231	2.2	2
29	Electrical conductivity and corrosion protection properties of conductive paint coatings. <i>Anti-Corrosion Methods and Materials</i> , <b>2010</b> , 57, 204-208	0.8	2
28	Wettability, microstructure, and tensile properties of Sn <sub>3</sub> Ag <sub>0.5</sub> Cu solder alloy prepared by reflow oven and susceptor-assisted microwave <b>2020</b> ,		2
27	Effect of microwave operating power and reflow time on the microstructure and tensile properties of Sn <sub>3</sub> Ag <sub>0.5</sub> Cu/Cu solder joints. <i>Soldering and Surface Mount Technology</i> , <b>2021</b> , ahead-of-print,	1.4	2
26	Selective electrochemical etching of the Sn-3Ag-0.5Cu/0.07wt% graphene nanoparticle composite solder. <i>Arabian Journal of Chemistry</i> , <b>2021</b> , 14, 103392	5.9	2
25	Ni doping effect on the electronic, structural and optical properties of ZnO nanoparticles prepared by Co-precipitation route. <i>Optical Materials</i> , <b>2022</b> , 128, 112398	3.3	2
24	Effect of Al Additions on Corrosion Performance of Sn-9Zn Solder in Acidic Solution. <i>Solid State Phenomena</i> , <b>2018</b> , 273, 46-50	0.4	1
23	Microstructure and Phase Analyses on the Corrosion of SAC305 Solder in NaCl Solution. <i>Solid State Phenomena</i> , <b>2018</b> , 273, 91-94	0.4	1
22	Investigation of anodic dissolution behaviour of intermetallic compound in Sn-3Ag-0.5Cu solder alloy by cyclic voltammetry. <i>Soldering and Surface Mount Technology</i> , <b>2019</b> , 31, 211-220	1.4	1
21	Application of liquid gel polymer electrolyte based on chitosan/H <sub>4</sub> NO <sub>3</sub> for proton batteries. <i>Journal of Applied Polymer Science</i> , <b>2010</b> , 118, n/a-n/a	2.9	1
20	The Effect of Bismuth Addition on Sn-Ag-Cu Lead-Free Solder Properties: A Short Review. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>596</b> , 012007	0.3	1
19	Effect Additions Zn on Sn-0.7Cu Lead-Free Solder: A Short Brief. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>596</b> , 012038	0.3	1
18	ZnO Nanocrystalline Metal Oxide Semiconductor Via Sol Gel Method. <i>SpringerBriefs in Materials</i> , <b>2014</b> , 1-8	0.5	1
17	Selective etching and hardness properties of quenched SAC305 solder joints. <i>Soldering and Surface Mount Technology</i> , <b>2020</b> , 32, 225-233	1.4	1
16	Physical characterization of LSCF-CuO via enhanced modified sol-gel method for intermediate temperature Solid oxide Fuel Cells (IT-SOFCs). <i>Materials Today: Proceedings</i> , <b>2021</b> , 46, 2052-2057	1.4	1
15	Experimental and theoretical studies on structural, morphological, electronic, optical and magnetic properties of Zn <sub>1-x</sub> Cu <sub>x</sub> O thin films (0 ≤ x ≤ 0.125). <i>Materials Science in Semiconductor Processing</i> , <b>2021</b> , 134, 106012	4.3	1

14	A review on DFT+U scheme for structural, electronic, optical and magnetic properties of copper doped ZnO wurtzite structure. <i>Materials Today Communications</i> , <b>2022</b> , 31, 103306	2.5	1
13	Corrosion Investigation of Sn-0.7Cu Pb-Free Solder in Open-Circuit and Polarized Conditions. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2020</b> , 957, 012012	0.4	0
12	The Effect of Al Micro-Alloying on Corrosion and Thermal Properties of Sn-Zn Alloy. <i>Materials Science Forum</i> , <b>2020</b> , 1010, 98-103	0.4	0
11	Comparison of intermetallic compound growth and tensile behavior of Sn-3.0Ag-0.5Cu/Cu solder joints by conventional and microwave hybrid heating. <i>Journal of Materials Research and Technology</i> , <b>2022</b> , 17, 1438-1449	5.5	0
10	Failure analysis of zinc electrode using hydroponic gel and liquid electrolytes in zinc-air batteries at elevated temperatures. <i>Ionics</i> , <b>2020</b> , 26, 2981-2988	2.7	
9	ZnO: Effect of pH on the Sol-Gel Process. <i>SpringerBriefs in Materials</i> , <b>2014</b> , 9-25	0.5	
8	ZnO: Effect of Centrifugation and Storage on Sol-Gel Process. <i>SpringerBriefs in Materials</i> , <b>2014</b> , 27-39	0.5	
7	Thickness Effect on the Properties of 4% Mn-Doped ZnO Thin Films Grown by Sol-Gel Spin Coating Deposition. <i>Macromolecular Symposia</i> , <b>2021</b> , 397, 2000235	0.8	
6	Corrosion Assessment of Sn-0.7Cu Lead-Free Solder in 1 M Hydrochloric Acid. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 701, 012058	0.4	
5	Investigation on Passivation Behavior of Sn-0.7Cu Solder in Different Polarizing Conditions. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2019</b> , 701, 012059	0.4	
4	Synthesis of LiV <sub>3</sub> O <sub>8</sub> Materials using Oxalic Acid as Chelating Agent. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 1082, 012035	0.3	
3	Surface Modifications on Ceramic Reinforcement for Tin-Based Composite Solders. <i>Topics in Mining, Metallurgy and Materials Engineering</i> , <b>2022</b> , 53-75	0.4	
2	Mechanical and Corrosion Properties Investigation of Sn-9Zn Solder with the Additions of Nickel-Coated Precipitated Calcium Carbonate. <i>Lecture Notes in Mechanical Engineering</i> , <b>2023</b> , 67-74	0.4	
1	Electrochemical Characterization of Cleaning Nickel Foam Current Collector for Supercapacitor Application. <i>Lecture Notes in Mechanical Engineering</i> , <b>2023</b> , 145-158	0.4	