

Zhong-jie Jiang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106
papers

3,965
citations

35
h-index

60
g-index

111
ext. papers

4,598
ext. citations

7.4
avg, IF

5.95
L-index

#	Paper	IF	Citations
106	Hierarchical nanoassembly of Ni/MoS ₂ @Ni ₁₂ P ₅ /ZnP ₂ achieved by a plasma assisted phosphorization with highly improved electrocatalytic activity for overall water splitting. <i>Electrochimica Acta</i> , 2022 , 140392	6.7	1
105	Atmospheric-Pressure Plasma Jet-Induced Ultrafast Construction of an Ultrathin Nonstoichiometric Nickel Oxide Layer with Mixed Ni ³⁺ /Ni ²⁺ Ions and Rich Oxygen Defects as an Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2021 , 4, 5059-5069	6.1	9
104	Carbon nitride decorated nitrogen doped graphene hollow spheres loaded Ni/Co and corresponding oxides nanoparticles as reversible air electrode catalysts for rechargeable zinc-air batteries. <i>Journal of Alloys and Compounds</i> , 2021 , 865, 158940	5.7	4
103	Amino functionalized carbon nanotubes supported CoNi@CoO/NiO core/shell nanoparticles as highly efficient bifunctional catalyst for rechargeable Zn-air batteries. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 374-388	6.7	15
102	Controlled thermal oxidation derived Mn ₃ O ₄ encapsulated in nitrogen doped carbon as an anode for lithium/sodium ion batteries with enhanced performance. <i>Chemical Engineering Journal</i> , 2021 , 406, 126894	14.7	18
101	The Kirkendall effect-induced formation of FeP@C composites comprising interconnected carbon-coated hollow FeP sub-nanoparticles for efficient alkaline metal storage. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 18231-18238	13	3
100	Unoccupied 3d orbitals make Li-unalloyable transition metals usable as anode materials for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 17353-17365	13	0
99	Spindle-like MOFs-derived porous carbon filled sulfonated poly (ether ether ketone): A high performance proton exchange membrane for direct methanol fuel cells. <i>Journal of Membrane Science</i> , 2021 , 636, 119585	9.6	10
98	Effects of nitrogen-doping structural changes of spherical hollow graphene on the growth of MoS ₂ +x nanosheets and the enhanced hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2021 , 884, 161073	5.7	4
97	Origin of the ligand effect in the cobalt catalyzed regioselective hydroboration of 1,3-diene. <i>Organic and Biomolecular Chemistry</i> , 2020 , 18, 3747-3753	3.9	7
96	Defect-Rich, Mesoporous Cobalt Sulfide Hexagonal Nanosheets as Superior Sulfur Hosts for High-Rate, Long-Cycle Rechargeable Lithium/Sulfur Batteries. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 12259-12268	3.8	18
95	Understanding the role of graphene intercalation layers on both sides of sandwich structured graphene@MoS ₂ @porous graphene anode in promoting sodium storage performance and stability. <i>Journal of Alloys and Compounds</i> , 2020 , 845, 155336	5.7	6
94	Thickness-dependent Shell Homogeneity of ZnSe/CdSe Core/Shell Nanocrystals and Their Spectroscopic and Electron- and Hole-transfer Dynamics Properties. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 12049-12064	3.8	4
93	Computational understanding of catalyst-controlled borylation of fluoroarenes: directed undirected pathway.. <i>RSC Advances</i> , 2020 , 10, 19562-19569	3.7	
92	Insight into the effects of microstructure and nitrogen doping configuration for hollow graphene spheres on oxygen reduction reaction and sodium-ion storage performance. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 16569-16582	6.7	7
91	Porous carbon-coated LiFePO ₄ nanocrystals prepared by in situ plasma-assisted pyrolysis as superior cathode materials for lithium ion batteries. <i>Ionics</i> , 2020 , 26, 2715-2726	2.7	7
90	Co nanoparticles coupling induced high catalytic activity of nitrogen doped carbon towards hydrogen evolution reaction in acidic/alkaline solutions. <i>Electrochimica Acta</i> , 2020 , 342, 136076	6.7	10

89	Tailoring the thickness of MoSe ₂ layer of the hierarchical double-shelled N-doped carbon@MoSe ₂ hollow nanoboxes for efficient and stable hydrogen evolution reaction. <i>Journal of Catalysis</i> , 2020 , 381, 363-373	7.3	35
88	Synthesis of Ultrasmall, Homogeneously Distributed Ni ₃ Fe Alloy Nanoparticles on N-Doped Porous Graphene as a Bifunctional Electrocatalyst for Rechargeable Flexible Solid Zinc-Air Batteries. <i>ACS Applied Energy Materials</i> , 2020 , 3, 12148-12161	6.1	9
87	Sulfurization synthesis of a new anode material for Li-ion batteries: understanding the role of sulfurization in lithium ion conversion reactions and promoting lithium storage performance. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 21270-21279	13	5
86	Shell thickness controlled core-shell FeO@CoO nanocrystals as efficient bifunctional catalysts for the oxygen reduction and evolution reactions. <i>Chemical Communications</i> , 2019 , 55, 525-528	5.8	30
85	Wood-Derived Materials for Advanced Electrochemical Energy Storage Devices. <i>Advanced Functional Materials</i> , 2019 , 29, 1902255	15.6	76
84	FeCo Alloy Nanoparticles Coated by an Ultrathin N-Doped Carbon Layer and Encapsulated in Carbon Nanotubes as a Highly Efficient Bifunctional Air Electrode for Rechargeable Zn-Air Batteries. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 8530-8541	8.3	90
83	Adsorption of arsenic by activated charcoal coated zirconium-manganese nanocomposite: Performance and mechanism. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 575, 318-328	5.1	33
82	A novel particle-in-nanoplate architecture of iron nickel phosphide intertwined with carbon nanotubes for efficient water oxidation and high-performance sodium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 791, 1220-1230	5.7	15
81	High catalytic performance of nickel foam supported Co ₂ P-Ni ₂ P for overall water splitting and its structural evolutions during hydrogen/oxygen evolution reactions in alkaline solutions. <i>Journal of Catalysis</i> , 2019 , 373, 81-92	7.3	49
80	In-situ plasma assisted formation of graphitic nanosheet supported N-doped carbon-coated antisite defectless LiFePO ₄ as a high-performance cathode material for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2019 , 806, 864-873	5.7	4
79	Predictable spectroscopic properties of type-II ZnTe/CdSe nanocrystals and electron/hole quenching. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5824-5833	3.6	6
78	MOF-derived Co nanoparticles embedded in N,S-codoped carbon layer/MWCNTs for efficient oxygen reduction in alkaline media. <i>Ionics</i> , 2019 , 25, 785-796	2.7	20
77	Core@shell structured Co-CoO@NC nanoparticles supported on nitrogen doped carbon with high catalytic activity for oxygen reduction reaction.. <i>RSC Advances</i> , 2018 , 8, 14462-14472	3.7	26
76	Electronic coupling induced high performance of N, S-codoped graphene supported CoS ₂ nanoparticles for catalytic reduction and evolution of oxygen. <i>Journal of Power Sources</i> , 2018 , 389, 178-187	8.9	33
75	Co-polymerization of polysilicic-zirconium with enhanced coagulation properties for water purification. <i>Separation and Purification Technology</i> , 2018 , 200, 59-67	8.3	10
74	Nitrogen-rich graphene hollow microspheres as anode materials for sodium-ion batteries with super-high cycling and rate performance. <i>Carbon</i> , 2018 , 130, 574-583	10.4	53
73	Naked Au nanoparticles monodispersed onto multifunctional cellulose nanocrystal/graphene hybrid sheets: towards efficient and sustainable heterogeneous catalysts. <i>New Journal of Chemistry</i> , 2018 , 42, 2197-2203	3.6	13
72	Hierarchically Porous Co and N-Codoped Carbon Hollow Structure Derived from PS@ZIF-67 as an Electrocatalyst for Oxygen Reduction. <i>ChemistrySelect</i> , 2018 , 3, 4831-4837	1.8	13

71	Cation exchange synthesis of $\text{Ni}_x\text{Co}_{(3-x)}\text{O}_4$ ($x = 1.25$) nanoparticles on aminated carbon nanotubes with high catalytic bifunctionality for the oxygen reduction/evolution reaction toward efficient Zn/Bi batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9517-9527	13	41
70	A novel $\text{NiCo}_2\text{O}_4/\text{GO}$ hybrid composite with core-shell structure as high-performance anodes for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018 , 731, 1095-1102	5.7	38
69	Graphene oxide assisted template-free synthesis of nanoscale splode-like NiCoO hollow microsphere with superior lithium storage properties. <i>Journal of Colloid and Interface Science</i> , 2018 , 511, 119-127	9.3	8
68	More active sites exposed few-layer MoSe_2 supported on nitrogen-doped carbon as highly efficient and durable electrocatalysts for water splitting. <i>Electrochimica Acta</i> , 2018 , 285, 103-110	6.7	14
67	Amine group induced high activity of highly torn amine functionalized nitrogen-doped graphene as the metal-free catalyst for hydrogen evolution reaction. <i>Carbon</i> , 2018 , 138, 169-178	10.4	34
66	A DNA-Threaded ZIF-8 Membrane with High Proton Conductivity and Low Methanol Permeability. <i>Advanced Materials</i> , 2018 , 30, 1705155	24	101
65	Exploration of the Active Center Structure of Nitrogen-Doped Graphene for Control over the Growth of Co_3O_4 for a High-Performance Supercapacitor. <i>ACS Applied Energy Materials</i> , 2018 , 1, 143-153	6.1	50
64	Wood-Derived Hierarchically Porous Electrodes for High-Performance All-Solid-State Supercapacitors. <i>Advanced Functional Materials</i> , 2018 , 28, 1806207	15.6	102
63	Zwitterion threaded metal-organic framework membranes for direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 19547-19554	13	20
62	Self-Templated Synthesis of Hierarchically Porous N-Doped Carbon Derived from Biomass for Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13932-13939	8.3	41
61	Phase and Morphology Evolution Induced Lithium Storage Capacity Enhancement of Porous CoO Nanowires Intertwined with Reduced Graphene Oxide Nanosheets. <i>ChemElectroChem</i> , 2018 , 5, 3679-3687	4.3	5
60	High performance of yolk-shell structured $\text{MnO}/\text{nitrogen doped carbon}$ microspheres as lithium ion battery anode materials and their in operando X-ray diffraction study. <i>Electrochimica Acta</i> , 2018 , 282, 719-727	6.7	18
59	Sulfonated Holey Graphene Oxide (SHGO) Filled Sulfonated Poly(ether ether ketone) Membrane: The Role of Holes in the SHGO in Improving Its Performance as Proton Exchange Membrane for Direct Methanol Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 20046-20056	9.5	47
58	Sulfonic acid functionalized graphene oxide paper sandwiched in sulfonated poly(ether ether ketone): A proton exchange membrane with high performance for semi-passive direct methanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 16731-16740	6.7	32
57	Significantly enhanced electrochemical performance of a ZnCo_2O_4 anode in a carbonate based electrolyte with fluoroethylene carbonate. <i>RSC Advances</i> , 2017 , 7, 18491-18499	3.7	7
56	General synthesis of $\text{MFe}_2\text{O}_4/\text{carbon}$ ($\text{M} = \text{Zn}, \text{Mn}, \text{Co}, \text{Ni}$) spindles from mixed metal organic frameworks as high performance anodes for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23641-23650	13	54
55	Facile Assembly of Co-Ni Layered Double Hydroxide Nanoflakes on Carbon Nitride Coated N-doped Graphene Hollow Spheres with High Electrochemical Capacitive Performance. <i>Electrochimica Acta</i> , 2017 , 253, 21-30	6.7	34
54	Sulfonated holey graphene oxide paper with SPEEK membranes on its both sides: a sandwiched membrane with high performance for semi-passive direct methanol fuel cells. <i>Electrochimica Acta</i> , 2017 , 250, 68-76	6.7	21

53	Parallelepipedally shaped ZnCo ₂ O ₄ particles with a hierarchical porous structure as an anode for lithium-ion batteries. <i>Ionics</i> , 2017 , 23, 77-85	2.7	3
52	Sulfonic acid-functionalized mesoporous carbon/silica as efficient catalyst for dehydration of fructose into 5-hydroxymethylfurfural. <i>RSC Advances</i> , 2016 , 6, 101526-101534	3.7	18
51	Facile synthesis of Co ₃ O ₄ with different morphologies loaded on amine modified graphene and their application in supercapacitors. <i>Journal of Alloys and Compounds</i> , 2016 , 685, 507-517	5.7	25
50	Morphology and crystal phase evolution induced performance enhancement of MnO ₂ grown on reduced graphene oxide for lithium ion batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 2643-2650	13	46
49	Cobalt oxide-coated N- and B-doped graphene hollow spheres as bifunctional electrocatalysts for oxygen reduction and oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5877-5889	13	129
48	Interaction Induced High Catalytic Activities of CoO Nanoparticles Grown on Nitrogen-Doped Hollow Graphene Microspheres for Oxygen Reduction and Evolution Reactions. <i>Scientific Reports</i> , 2016 , 6, 27081	4.9	69
47	High catalytic activity of Co ₃ O ₄ nanoparticles encapsulated in a graphene supported carbon matrix for oxygen reduction reaction. <i>RSC Advances</i> , 2016 , 6, 50349-50357	3.7	11
46	Hierarchical porous ZnMn ₂ O ₄ microspheres architected with sub-nanoparticles as a high performance anode for lithium ion batteries. <i>Journal of Alloys and Compounds</i> , 2016 , 679, 231-238	5.7	25
45	Plasma-Polymerized Membranes with High Proton Conductivity for a Micro Semi-Passive Direct Methanol Fuel Cell. <i>Plasma Processes and Polymers</i> , 2016 , 13, 105-115	3.4	6
44	A high-performance anode for lithium ion batteries: Fe ₃ O ₄ microspheres encapsulated in hollow graphene shells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11847-11856	13	135
43	Hydrothermal Synthesis of Boron and Nitrogen Codoped Hollow Graphene Microspheres with Enhanced Electrocatalytic Activity for Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 19398-407	9.5	67
42	Phase transition induced electrochemical performance enhancement of hierarchical CoCO ₃ /CoO nanostructure for pseudocapacitor electrode. <i>Nano Energy</i> , 2015 , 11, 736-745	17.1	56
41	Synthesis of reduced graphene oxide-montmorillonite nanocomposite and its application in hexavalent chromium removal from aqueous solutions. <i>RSC Advances</i> , 2015 , 5, 47408-47417	3.7	40
40	Plasma techniques for the fabrication of polymer electrolyte membranes for fuel cells. <i>Journal of Membrane Science</i> , 2014 , 456, 85-106	9.6	44
39	Amine-functionalized holey graphene as a highly active metal-free catalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 441-450	13	109
38	The role of holes in improving the performance of nitrogen-doped holey graphene as an active electrode material for supercapacitor and oxygen reduction reaction. <i>Journal of Power Sources</i> , 2014 , 251, 55-65	8.9	106
37	Fabrication of nitrogen-doped holey graphene hollow microspheres and their use as an active electrode material for lithium ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19082-91	9.5	52
36	Reduction of the oxygen reduction reaction overpotential of nitrogen-doped graphene by designing it to a microspherical hollow shape. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14071	13	35

35	Nitrogen-doped Graphene Hollow Microspheres as an Efficient Electrode Material for Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2014 , 146, 455-463	6.7	47
34	Phase evolution of an alpha MnO ₂ -based electrode for pseudo-capacitors probed by in operando Raman spectroscopy. <i>Nano Energy</i> , 2014 , 9, 161-167	17.1	138
33	Fabrication of 3-Dimensional Porous Graphene Materials for Lithium Ion Batteries. <i>Electrochimica Acta</i> , 2014 , 146, 437-446	6.7	23
32	High performance of a free-standing sulfonic acid functionalized holey graphene oxide paper as a proton conducting polymer electrolyte for air-breathing direct methanol fuel cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6494	13	67
31	Resonance Raman spectra of wurtzite and zincblende CdSe nanocrystals. <i>Chemical Physics</i> , 2013 , 422, 272-276	2.3	37
30	Stranski-Krastanov Shell Growth in ZnTe/CdSe Core/Shell Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6826-6834	3.8	23
29	Preparation of proton exchange membranes with high performance by a pulsed plasma enhanced chemical vapor deposition technique (PPECVD). <i>RSC Advances</i> , 2012 , 2, 2743	3.7	14
28	Synthesis and optimization of proton exchange membranes by a pulsed plasma enhanced chemical vapor deposition technique. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 11276-11289	6.7	14
27	Effects of carbon content on the electrochemical performance of LiFePO ₄ /C core/shell nanocomposites fabricated using FePO ₄ /polyaniline as an iron source. <i>Journal of Alloys and Compounds</i> , 2012 , 537, 308-317	5.7	56
26	Effects of Inhomogeneous Shell Thickness in the Charge Transfer Dynamics of ZnTe/CdSe Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 12958-12968	3.8	40
25	Carbon Nanotubes Supported Metal Nanoparticles for the Applications in Proton Exchange Membrane Fuel Cells (PEMFCs) 2011 ,		2
24	Improvements of electrocatalytic activity of PtRu nanoparticles on multi-walled carbon nanotubes by a H ₂ plasma treatment in methanol and formic acid oxidation. <i>Electrochimica Acta</i> , 2011 , 56, 8662-8673	6.7	20
23	Surface charge and piezoelectric fields control auger recombination in semiconductor nanocrystals. <i>Nano Letters</i> , 2011 , 11, 4067-73	11.5	14
22	Optimization and synthesis of plasma polymerized proton exchange membranes for direct methanol fuel cells. <i>Journal of Membrane Science</i> , 2011 , 372, 303-313	9.6	20
21	Improvement of the catalytic activity of PtRu bimetallic nanoparticles by a plasma treatment in their application of the ethanol electrooxidation. <i>Journal of Materials Chemistry</i> , 2011 , 21, 5565		7
20	Hot and Relaxed Electron Transfer from the CdSe Core and Core/Shell Nanorods. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 4594-4602	3.8	58
19	High catalytic performance of Pt nanoparticles on plasma treated carbon nanotubes for electrooxidation of ethanol in a basic solution. <i>Applied Surface Science</i> , 2011 , 257, 2923-2928	6.7	23
18	Role of Surface States in the Exciton Dynamics in CdSe Core and Core/Shell Nanorods. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 17519-17528	3.8	20

17	Role of magic-sized clusters in the synthesis of CdSe nanorods. <i>ACS Nano</i> , 2010 , 4, 1561-72	16.7	73
16	Plasma deposition of polymer electrolyte membrane for proton exchange membrane fuel cell (PEMFC) applications. <i>Surface and Coatings Technology</i> , 2010 , 205, S231-S235	4.4	6
15	Preparation and characteristics of acrylic acid/styrene composite plasma polymerized membranes. <i>Applied Surface Science</i> , 2010 , 256, 6473-6479	6.7	14
14	Preparation of Proton Exchange Membranes by a Plasma Polymerization Method and Application in Direct Methanol Fuel Cells (DMFCs). <i>Plasma Processes and Polymers</i> , 2010 , 7, 382-389	3.4	32
13	PREPARATION OF HIGHLY SULFONATED ULTRA-THIN PROTON-EXCHANGE POLYMER MEMBRANES FOR PROTON EXCHANGE MEMBRANE FUEL CELLS. <i>Surface Review and Letters</i> , 2009 , 16, 297-302	1.1	14
12	Static and Dynamic Emission Quenching in Core/Shell Nanorod Quantum Dots with Hole Acceptors. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 19161-19171	3.8	41
11	Synthesis of monodispersed Pt nanoparticles on plasma processed carbon nanotubes for methanol electro-oxidation reaction. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6720		43
10	Fluorescence properties of systems with multiple Förster transfer pairs. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 4584-93	3.6	4
9	Plus green emission of ZnO nanorods induced by Ce ³⁺ doping and concentration. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008 , 195, 151-155	4.7	12
8	PREPARATION OF ULTRA-THIN CATION EXCHANGE COMPOSITE MEMBRANES BY A NOVEL PLASMA POLYMERIZATION TECHNIQUE. <i>Surface Review and Letters</i> , 2007 , 14, 1165-1168	1.1	12
7	Catalytic properties of silver nanoparticles supported on silica spheres. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 1730-5	3.4	560
6	Formation of silver nanoparticles in an acid-catalyzed silica colloidal solution. <i>Applied Surface Science</i> , 2004 , 233, 135-140	6.7	22
5	Electrochemical Studies of Silver Nanoparticles Tethered on Silica Sphere. <i>Chemistry Letters</i> , 2004 , 33, 498-499	1.7	15
4	Fabrication of Silver Nanoshell on Functionalized Silica Sphere through Layer-by-Layer Technique. <i>Chemistry Letters</i> , 2003 , 32, 668-669	1.7	12
3	Seed-Mediated Growth Technique for the Preparation of a Silver Nanoshell on a Silica Sphere. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 12411-12415	3.4	187
2	Accelerated hydrogen evolution reaction in Ni ₃ P/MoP ₂ /MoO ₂ tri-phase composites with rich crystalline interfaces and oxygen vacancies achieved by plasma assisted phosphorization. <i>Journal of Materials Chemistry A</i> ,	13	3
1	A NiFe/NiSe ₂ heterojunction bifunctional catalyst rich in oxygen vacancies introduced using dielectric barrier discharge plasma for liquid and flexible all-solid-state rechargeable Zn air batteries. <i>Journal of Materials Chemistry A</i> ,	13	3