

Meng-Qiang Zhao

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.

125
papers

20,528
citations

56
h-index

132
g-index

132
ext. papers

23,940
ext. citations

11.9
avg, IF

7.01
L-index

#	Paper	IF	Citations
125	The roles of MXenes in developing advanced lithium metal anodes. <i>Journal of Energy Chemistry</i> , 2022 , 69, 132-149	12	0
124	Synthesis and nano-engineering of MXenes for energy conversion and storage applications: Recent advances and perspectives. <i>Coordination Chemistry Reviews</i> , 2022 , 454, 214339	23.2	10
123	Multi-order phononic frequency comb generation within a MoS ₂ electromechanical resonator. <i>Applied Physics Letters</i> , 2021 , 119, 173102	3.4	0
122	Rapid Growth of Monolayer MoSe ₂ Films for Large-Area Electronics. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001219	6.4	5
121	Controlled doping of graphene by impurity charge compensation via a polarized ferroelectric polymer. <i>Journal of Applied Physics</i> , 2020 , 127, 125503	2.5	4
120	Ultrathin WS ₂ -on-Glass Photonic Crystal for Self-Resonant Exciton-Polaritronics. <i>Advanced Optical Materials</i> , 2020 , 8, 1901988	8.1	3
119	Recent advances in the properties and synthesis of bilayer graphene and transition metal dichalcogenides. <i>J Phys Materials</i> , 2020 , 3, 042003	4.2	2
118	MoS-enabled dual-mode optoelectronic biosensor using a water soluble variant of μ -opioid receptor for opioid peptide detection. <i>2D Materials</i> , 2020 , 7,	5.9	8
117	Phase Transition in a Memristive Suspended MoS Monolayer Probed by Opto- and Electro-Mechanics. <i>ACS Nano</i> , 2020 , 14, 13611-13618	16.7	5
116	Nanoscale Friction Behavior of Transition-Metal Dichalcogenides: Role of the Chalcogenide. <i>ACS Nano</i> , 2020 , 14, 16013-16021	16.7	11
115	Magnesium-Ion Storage Capability of MXenes. <i>ACS Applied Energy Materials</i> , 2019 , 2, 1572-1578	6.1	53
114	Rectifying effect in a MoS ₂ monolayer crossed with an electro-spun PEDOT-PSS nano-ribbon. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	
113	Scalable Manufacturing of Large and Flexible Sheets of MXene/Graphene Heterostructures. <i>Advanced Materials Technologies</i> , 2019 , 4, 1800639	6.8	60
112	Controlled Growth of Large-Area Bilayer Tungsten Diselenides with Lateral P-N Junctions. <i>ACS Nano</i> , 2019 , 13, 10490-10498	16.7	24
111	Monolayer Excitonic Emission for Imaging Spatial Dispersion of Photonic Crystals. <i>ACS Photonics</i> , 2019 , 6, 2312-2319	6.3	3
110	Origin of Nanoscale Friction Contrast between Supported Graphene, MoS, and a Graphene/MoS Heterostructure. <i>Nano Letters</i> , 2019 , 19, 5496-5505	11.5	55
109	Effect of varying the gate voltage scan rate in a MoS ₂ /ferroelectric polymer field effect transistor. <i>Ferroelectrics</i> , 2019 , 550, 1-11	0.6	5

108	Crystalline Bilayer Graphene with Preferential Stacking from Ni-Cu Gradient Alloy. <i>ACS Nano</i> , 2018 , 12, 2275-2282	16.7	32
107	MoS ₂ -on-MXene Heterostructures as Highly Reversible Anode Materials for Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2018 , 130, 1864-1868	3.6	56
106	MoS ₂ -on-MXene Heterostructures as Highly Reversible Anode Materials for Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1846-1850	16.4	375
105	Size-Dependent Physical and Electrochemical Properties of Two-Dimensional MXene Flakes. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24491-24498	9.5	150
104	Ambipolar transport in CVD grown MoSe ₂ monolayer using an ionic liquid gel gate dielectric. <i>AIP Advances</i> , 2018 , 8, 035014	1.5	11
103	Highly active single-layer MoS catalysts synthesized by swift heavy ion irradiation. <i>Nanoscale</i> , 2018 , 10, 22908-22916	7.7	26
102	A Review of Advanced Energy Materials for Magnesium Sulfur Batteries. <i>Energy and Environmental Materials</i> , 2018 , 1, 100-112	13	74
101	Effect of Synthesis on Performance of MXene/Iron Oxide Anode Material for Lithium-Ion Batteries. <i>Langmuir</i> , 2018 , 34, 11325-11334	4	34
100	Thickness-independent capacitance of vertically aligned liquid-crystalline MXenes. <i>Nature</i> , 2018 , 557, 409-412	50.4	627
99	Voltage-Gated Ions Sieving through 2D MXene Ti ₃ C ₂ T _x Membranes. <i>ACS Applied Nano Materials</i> , 2018 , 1, 3644-3652	5.6	58
98	Two-Dimensional Titanium Carbide MXene As a Cathode Material for Hybrid Magnesium/Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4296-4300	9.5	149
97	Interaction of Polar and Nonpolar Polyfluorenes with Layers of Two-Dimensional Titanium Carbide (MXene): Intercalation and Pseudocapacitance. <i>Chemistry of Materials</i> , 2017 , 29, 2731-2738	9.6	128
96	Charge transfer induced polymerization of EDOT confined between 2D titanium carbide layers. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5260-5265	13	107
95	Nanodiamonds suppress the growth of lithium dendrites. <i>Nature Communications</i> , 2017 , 8, 336	17.4	257
94	Hollow MXene Spheres and 3D Macroporous MXene Frameworks for Na-Ion Storage. <i>Advanced Materials</i> , 2017 , 29, 1702410	24	465
93	Synthesis and Physical Properties of Phase-Engineered Transition Metal Dichalcogenide Monolayer Heterostructures. <i>ACS Nano</i> , 2017 , 11, 8619-8627	16.7	34
92	Recoil Effect and Photoemission Splitting of Trions in Monolayer MoS. <i>ACS Nano</i> , 2017 , 11, 10808-10815	16.7	9
91	Ultra-high-rate pseudocapacitive energy storage in two-dimensional transition metal carbides. <i>Nature Energy</i> , 2017 , 2,	62.3	1071

90	Micro-/Mesoporous Zinc/Manganese Oxide/Graphene Hybrids with High Specific Surface Area: A High-Capacity, Superior-Rate, and Ultralong-Life Anode for Lithium Storage. <i>ChemElectroChem</i> , 2017 , 4, 230-235	4.3	8
89	Ti ₃ C ₂ T _x (MXene)/polyacrylamide nanocomposite films. <i>RSC Advances</i> , 2016 , 6, 72069-72073	3.7	112
88	2D titanium carbide and transition metal oxides hybrid electrodes for Li-ion storage. <i>Nano Energy</i> , 2016 , 30, 603-613	17.1	229
87	Demonstration of Li-Ion Capacity of MAX Phases. <i>ACS Energy Letters</i> , 2016 , 1, 1094-1099	20.1	37
86	Layered Orthorhombic Nb ₂ O ₅ @Nb ₄ C ₃ T _x and TiO ₂ @Ti ₃ C ₂ T _x Hierarchical Composites for High Performance Li-ion Batteries. <i>Advanced Functional Materials</i> , 2016 , 26, 4143-4151	15.6	244
85	Porous heterostructured MXene/carbon nanotube composite paper with high volumetric capacity for sodium-based energy storage devices. <i>Nano Energy</i> , 2016 , 26, 513-523	17.1	505
84	Synthesis and Characterization of 2D Molybdenum Carbide (MXene). <i>Advanced Functional Materials</i> , 2016 , 26, 3118-3127	15.6	640
83	Fabrication of Ti ₃ C ₂ T _x MXene Transparent Thin Films with Tunable Optoelectronic Properties. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600050	6.4	407
82	MoS ₂ Nanosheets Vertically Aligned on Carbon Paper: A Freestanding Electrode for Highly Reversible Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1502161	21.8	402
81	Pseudocapacitive Electrodes Produced by Oxidant-Free Polymerization of Pyrrole between the Layers of 2D Titanium Carbide (MXene). <i>Advanced Materials</i> , 2016 , 28, 1517-22	24	614
80	Porous Two-Dimensional Transition Metal Carbide (MXene) Flakes for High-Performance Li-Ion Storage. <i>ChemElectroChem</i> , 2016 , 3, 689-693	4.3	298
79	Synthesis and Charge Storage Properties of Hierarchical Niobium Pentoxide/Carbon/Niobium Carbide (MXene) Hybrid Materials. <i>Chemistry of Materials</i> , 2016 , 28, 3937-3943	9.6	172
78	Synthesis of two-dimensional titanium nitride Ti ₄ N ₃ (MXene). <i>Nanoscale</i> , 2016 , 8, 11385-91	7.7	487
77	All-MXene (2D titanium carbide) solid-state microsupercapacitors for on-chip energy storage. <i>Energy and Environmental Science</i> , 2016 , 9, 2847-2854	35.4	428
76	Synthesis of carbon/sulfur nanolaminates by electrochemical extraction of titanium from Ti ₃ SiC ₃ . <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4810-4	16.4	81
75	Nitrogen-doped herringbone carbon nanofibers with large lattice spacings and abundant edges: Catalytic growth and their applications in lithium ion batteries and oxygen reduction reactions. <i>Catalysis Today</i> , 2015 , 249, 244-251	5.3	39
74	Customized casting of unstacked graphene with high surface area (>1300 m ² g ⁻¹) and its application in oxygen reduction reaction. <i>Carbon</i> , 2015 , 93, 702-712	10.4	17
73	Amine-Assisted Delamination of Nb ₂ C MXene for Li-Ion Energy Storage Devices. <i>Advanced Materials</i> , 2015 , 27, 3501-6	24	555

72	Synthesis of Carbon/Sulfur Nanolaminates by Electrochemical Extraction of Titanium from Ti ₂ SC. <i>Angewandte Chemie</i> , 2015 , 127, 4892-4896	3.6	19
71	High mass loading, binder-free MXene anodes for high areal capacity Li-ion batteries. <i>Electrochimica Acta</i> , 2015 , 163, 246-251	6.7	169
70	Rational recipe for bulk growth of graphene/carbon nanotube hybrids: New insights from in-situ characterization on working catalysts. <i>Carbon</i> , 2015 , 95, 292-301	10.4	17
69	Flexible MXene/carbon nanotube composite paper with high volumetric capacitance. <i>Advanced Materials</i> , 2015 , 27, 339-45	24	860
68	Innentitelbild: Synthesis of Carbon/Sulfur Nanolaminates by Electrochemical Extraction of Titanium from Ti ₂ SC (Angew. Chem. 16/2015). <i>Angewandte Chemie</i> , 2015 , 127, 4764-4764	3.6	
67	Fluidized-bed CVD of unstacked double-layer templated graphene and its application in supercapacitors. <i>AIChE Journal</i> , 2015 , 61, 747-755	3.6	40
66	Emerging double helical nanostructures. <i>Nanoscale</i> , 2014 , 6, 9339-54	7.7	31
65	Nanoarchitected Graphene/CNT@Porous Carbon with Extraordinary Electrical Conductivity and Interconnected Micro/Mesopores for Lithium-Sulfur Batteries. <i>Advanced Functional Materials</i> , 2014 , 24, 2772-2781	15.6	452
64	Enhanced electrochemical performance of hydrous RuO ₂ /mesoporous carbon nanocomposites via nitrogen doping. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9751-9	9.5	57
63	Nitrogen-doped graphene/carbon nanotube hybrids: in situ formation on bifunctional catalysts and their superior electrocatalytic activity for oxygen evolution/reduction reaction. <i>Small</i> , 2014 , 10, 2251-9	11	525
62	Carbon: Nanoarchitected Graphene/CNT@Porous Carbon with Extraordinary Electrical Conductivity and Interconnected Micro/Mesopores for Lithium-Sulfur Batteries (Adv. Funct. Mater. 19/2014). <i>Advanced Functional Materials</i> , 2014 , 24, 2920-2920	15.6	3
61	Nitrogen-doped aligned carbon nanotube/graphene sandwiches: facile catalytic growth on bifunctional natural catalysts and their applications as scaffolds for high-rate lithium-sulfur batteries. <i>Advanced Materials</i> , 2014 , 26, 6100-5	24	492
60	Aligned carbon nanotube/sulfur composite cathodes with high sulfur content for lithium-sulfur batteries. <i>Nano Energy</i> , 2014 , 4, 65-72	17.1	328
59	Lithium-Sulfur Batteries: Hierarchical Vine-Tree-Like Carbon Nanotube Architectures: In-Situ CVD Self-Assembly and Their Use as Robust Scaffolds for Lithium-Sulfur Batteries (Adv. Mater. 41/2014). <i>Advanced Materials</i> , 2014 , 26, 6986-6986	24	3
58	Flexible and conductive MXene films and nanocomposites with high capacitance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16676-81	11.5	1204
57	Monodisperse embedded nanoparticles derived from an atomic metal-dispersed precursor of layered double hydroxide for architected carbon nanotube formation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1686	13	34
56	Lithium-Sulfur Batteries: Nitrogen-Doped Aligned Carbon Nanotube/Graphene Sandwiches: Facile Catalytic Growth on Bifunctional Natural Catalysts and Their Applications as Scaffolds for High-Rate Lithium-Sulfur Batteries (Adv. Mater. 35/2014). <i>Advanced Materials</i> , 2014 , 26, 6199-6199	24	3
55	Helical Nanoarchitecture 2014 , 193-230		3

54	Controllable bulk growth of few-layer graphene/single-walled carbon nanotube hybrids containing Fe@C nanoparticles in a fluidized bed reactor. <i>Carbon</i> , 2014 , 67, 554-563	10.4	15
53	The catalytic pathways of hydrohalogenation over metal-free nitrogen-doped carbon nanotubes. <i>ChemSusChem</i> , 2014 , 7, 723-8	8.3	106
52	Resilient aligned carbon nanotube/graphene sandwiches for robust mechanical energy storage. <i>Nano Energy</i> , 2014 , 7, 161-169	17.1	54
51	Hierarchical vine-tree-like carbon nanotube architectures: In-situ CVD self-assembly and their use as robust scaffolds for lithium-sulfur batteries. <i>Advanced Materials</i> , 2014 , 26, 7051-8	24	97
50	Conductive two-dimensional titanium carbide $\text{Ti}_3\text{C}_2\text{Tx}$ with high volumetric capacitance. <i>Nature</i> , 2014 , 516, 78-81	50.4	2849
49	Unstacked double-layer templated graphene for high-rate lithium-sulphur batteries. <i>Nature Communications</i> , 2014 , 5, 3410	17.4	551
48	High-yield Synthesis of Nanohybrid Shish-kebab Polyethylene-carbon Nanotube Structure. <i>Chinese Journal of Chemical Engineering</i> , 2013 , 21, 37-43	3.2	3
47	Towards high purity graphene/single-walled carbon nanotube hybrids with improved electrochemical capacitive performance. <i>Carbon</i> , 2013 , 54, 403-411	10.4	100
46	High strength composites using interlocking carbon nanotubes in a polyimide matrix. <i>Carbon</i> , 2013 , 60, 102-108	10.4	12
45	Robust growth of herringbone carbon nanofibers on layered double hydroxide derived catalysts and their applications as anodes for Li-ion batteries. <i>Carbon</i> , 2013 , 62, 393-404	10.4	42
44	Entrapment of sulfur in hierarchical porous graphene for lithium-sulfur batteries with high rate performance from 40 to 60°C. <i>Nano Energy</i> , 2013 , 2, 314-321	17.1	204
43	In Situ Monitoring the Role of Working Metal Catalyst Nanoparticles for Ultrahigh Purity Single-Walled Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2013 , 23, 5066-5073	15.6	25
42	Direct writing on graphene paper by manipulating electrons as invisible inks. <i>Nanotechnology</i> , 2013 , 24, 275301	3.4	23
41	Composite Cathodes Containing SWCNT@S Coaxial Nanocables: Facile Synthesis, Surface Modification, and Enhanced Performance for Li-Ion Storage. <i>Particle and Particle Systems Characterization</i> , 2013 , 30, 158-165	3.1	68
40	Hierarchical Nanocomposites Derived from Nanocarbons and Layered Double Hydroxides - Properties, Synthesis, and Applications. <i>Advanced Functional Materials</i> , 2012 , 22, 675-694	15.6	477
39	A review of the large-scale production of carbon nanotubes: The practice of nanoscale process engineering. <i>Science Bulletin</i> , 2012 , 57, 157-166		31
38	Graphene/single-walled carbon nanotube hybrids: one-step catalytic growth and applications for high-rate Li-S batteries. <i>ACS Nano</i> , 2012 , 6, 10759-69	16.7	462
37	Carbon nanotubes for supercapacitors: Consideration of cost and chemical vapor deposition techniques. <i>Journal of Natural Gas Chemistry</i> , 2012 , 21, 233-240		32

36	Hierarchical carbon nanotube membrane with high packing density and tunable porous structure for high voltage supercapacitors. <i>Carbon</i> , 2012 , 50, 5167-5175	10.4	76
35	Space confinement and rotation stress induced self-organization of double-helix nanostructure: a nanotube twist with a moving catalyst head. <i>ACS Nano</i> , 2012 , 6, 4520-9	16.7	35
34	Dramatic enhancements in toughness of polyimide nanocomposite via long-CNT-induced long-range creep. <i>Journal of Materials Chemistry</i> , 2012 , 22, 7050		57
33	Self-organization of nitrogen-doped carbon nanotubes into double-helix structures. <i>Carbon</i> , 2012 , 50, 5323-5330	10.4	40
32	Preferential growth of short aligned, metallic-rich single-walled carbon nanotubes from perpendicular layered double hydroxide film. <i>Nanoscale</i> , 2012 , 4, 2470-7	7.7	18
31	Efficient synthesis of aligned nitrogen-doped carbon nanotubes in a fluidized-bed reactor. <i>Catalysis Today</i> , 2012 , 186, 83-92	5.3	32
30	Spontaneous formation of double helical structure due to interfacial adhesion. <i>Applied Physics Letters</i> , 2012 , 100, 263104	3.4	22
29	Improvement of oil adsorption performance by a sponge-like natural vermiculite-carbon nanotube hybrid. <i>Applied Clay Science</i> , 2011 , 53, 1-7	5.2	61
28	Fabrication of double- and multi-walled carbon nanotube transparent conductive films by filtration-transfer process and their property improvement by acid treatment. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 103, 403-411	2.6	12
27	Binder-free activated carbon/carbon nanotube paper electrodes for use in supercapacitors. <i>Nano Research</i> , 2011 , 4, 870-881	10	154
26	Carbon nanotube mass production: principles and processes. <i>ChemSusChem</i> , 2011 , 4, 864-89	8.3	288
25	Very fast growth of millimeter-tall aligned carbon nanotubes between two stacked substrates coated with a metal catalyst. <i>Carbon</i> , 2011 , 49, 1395-1400	10.4	7
24	Synthesis of high quality single-walled carbon nanotubes on natural sepiolite and their use for phenol absorption. <i>Carbon</i> , 2011 , 49, 1568-1580	10.4	29
23	Stretchable single-walled carbon nanotube double helices derived from molybdenum-containing layered double hydroxides. <i>Carbon</i> , 2011 , 49, 2148-2152	10.4	25
22	Patterning of hydrophobic three-dimensional carbon nanotube architectures by a pattern transfer approach. <i>Nanoscale</i> , 2010 , 2, 1401-4	7.7	16
21	Embedded high density metal nanoparticles with extraordinary thermal stability derived from guest-host mediated layered double hydroxides. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14739-41	16.4	161
20	A two-step shearing strategy to disperse long carbon nanotubes from vertically aligned multiwalled carbon nanotube arrays for transparent conductive films. <i>Langmuir</i> , 2010 , 26, 2798-804	4	28
19	Coupled process of plastics pyrolysis and chemical vapor deposition for controllable synthesis of vertically aligned carbon nanotube arrays. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 100, 533-540	2.6	35

18	Advanced materials from natural materials: synthesis of aligned carbon nanotubes on wollastonites. <i>ChemSusChem</i> , 2010 , 3, 453-9	8.3	19
17	Hierarchical Composites of Single/Double-Walled Carbon Nanotubes Interlinked Flakes from Direct Carbon Deposition on Layered Double Hydroxides. <i>Advanced Functional Materials</i> , 2010 , 20, 677-685	15.6	109
16	Carbon-Nanotube-Array Double Helices. <i>Angewandte Chemie</i> , 2010 , 122, 3724-3727	3.6	20
15	Carbon-nanotube-array double helices. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3642-5	16.4	90
14	Comparison of vertically aligned carbon nanotube array intercalated production among vermiculites in fixed and fluidized bed reactors. <i>Powder Technology</i> , 2010 , 198, 285-291	5.2	15
13	Large scale intercalated growth of short aligned carbon nanotubes among vermiculite layers in a fluidized bed reactor. <i>Journal of Physics and Chemistry of Solids</i> , 2010 , 71, 624-626	3.9	9
12	Mass production of aligned carbon nanotube arrays by fluidized bed catalytic chemical vapor deposition. <i>Carbon</i> , 2010 , 48, 1196-1209	10.4	77
11	The release of free standing vertically-aligned carbon nanotube arrays from a substrate using CO ₂ oxidation. <i>Carbon</i> , 2010 , 48, 1441-1450	10.4	33
10	Layered double hydroxides as catalysts for the efficient growth of high quality single-walled carbon nanotubes in a fluidized bed reactor. <i>Carbon</i> , 2010 , 48, 3260-3270	10.4	67
9	Energy-Absorbing Hybrid Composites Based on Alternate Carbon-Nanotube and Inorganic Layers. <i>Advanced Materials</i> , 2009 , 21, 2876-2880	24	106
8	Process intensification by CO ₂ for high quality carbon nanotube forest growth: Double-walled carbon nanotube convexity or single-walled carbon nanotube bowls?. <i>Nano Research</i> , 2009 , 2, 872-881	10	43
7	Modulating the diameter of carbon nanotubes in array form via floating catalyst chemical vapor deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 94, 853-860	2.6	32
6	Fluffy carbon nanotubes produced by shearing vertically aligned carbon nanotube arrays. <i>Carbon</i> , 2009 , 47, 538-541	10.4	23
5	Vertically aligned carbon nanotube arrays grown on a lamellar catalyst by fluidized bed catalytic chemical vapor deposition. <i>Carbon</i> , 2009 , 47, 2600-2610	10.4	94
4	Large scale synthesis of vertical aligned CNT array on irregular quartz particles. <i>Materials Research Society Symposia Proceedings</i> , 2008 , 1081, 1		
3	Selective Synthesis of Single/Double/Multi-walled Carbon Nanotubes on MgO-Supported Fe Catalyst. <i>Chinese Journal of Catalysis</i> , 2008 , 29, 1138-1144	11.3	17
2	Radial growth of vertically aligned carbon nanotube arrays from ethylene on ceramic spheres. <i>Carbon</i> , 2008 , 46, 1152-1158	10.4	87
1	Calculation for liquid-liquid equilibria of quaternary alkane-ethyl acetate-methanol-water systems used in counter-current chromatography. <i>Journal of Chromatography A</i> , 2007 , 1151, 60-4	4.5	4

