

# Xiaozhi hu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7942414/publications.pdf>

Version: 2024-02-01

131  
papers

4,408  
citations

76326

40  
h-index

128289

60  
g-index

132  
all docs

132  
docs citations

132  
times ranked

2023  
citing authors

#	ARTICLE	IF	CITATIONS
1	CNT toughened aluminium and CFRP interface for strong adhesive bonding. Nano Materials Science, 2022, 4, 266-275.	8.8	10
2	A simple and effective resin pre-coating treatment on grinded, acid pickled and anodised substrates for stronger adhesive bonding between Ti-6Al-4V titanium alloy and CFRP. Surface and Coatings Technology, 2022, 432, 128072.	4.8	29
3	Repairing sharp delamination cracks in CFRP through capillary action of acetone-diluted resin solution. Composites Science and Technology, 2022, 219, 109249.	7.8	11
4	Modelling of bone fracture using the fundamental functional unit "Osteon. Theoretical and Applied Fracture Mechanics, 2022, 118, 103216.	4.7	3
5	Modelling fracture process zone width and length for quasi-brittle fracture of rock, concrete and ceramics. Engineering Fracture Mechanics, 2022, 259, 108158.	4.3	48
6	Comparison of impact resistance of carbon fibre composites with multiple ultra-thin CNT, aramid pulp, PBO and graphene interlayers. Composites Part A: Applied Science and Manufacturing, 2022, 155, 106815.	7.6	29
7	Interfacial design and flexural property of CFRP/aluminum-honeycomb sandwich with Aramid-pulp micro/nano-fiber interlays. Composite Structures, 2022, 289, 115486.	5.8	22
8	Fracture performance testing and modeling of butt weld metal. Engineering Failure Analysis, 2022, 139, 106489.	4.0	1
9	Flexural tests and analysis of notched specimens of glass fiber reinforced composite. Engineering Fracture Mechanics, 2022, 272, 108641.	4.3	1
10	Quasi-brittle fracture analysis of large and small wedge splitting concrete specimens with size from 150mm to 2m and aggregates from 10 to 100mm. Theoretical and Applied Fracture Mechanics, 2022, 121, 103474.	4.7	7
11	Micro-mechanics modeling of compressive strength and elastic modulus enhancements in unidirectional CFRP with aramid pulp micro/nano-fiber interlays. Composites Science and Technology, 2021, 206, 108664.	7.8	24
12	A simple closed-form model for fracture of CFRP panel with shallow surface scratch confirmed by comprehensive flexural/tensile tests. Mechanics of Materials, 2021, 155, 103725.	3.2	13
13	Predicting the fracture behavior of concrete using artificial intelligence approaches and closed-form solution. Theoretical and Applied Fracture Mechanics, 2021, 112, 102892.	4.7	14
14	Compression after impact properties of carbon fiber composites with interlays of Aramid pulp micro/nanofibers. Polymer Composites, 2021, 42, 4424-4433.	4.6	5
15	Adhesive bond strength enhancing between carbon fiber reinforced polymer and aluminum substrates with different surface morphologies created by three sulfuric acid solutions. Composites Part A: Applied Science and Manufacturing, 2021, 146, 106427.	7.6	25
16	Modelling and testing of Temperature-Dependent strength and toughness of asphalt concrete from -10°C to +23°C using small notched beams. Construction and Building Materials, 2021, 294, 123580.	7.2	8
17	Design of concrete fracture property by average aggregate size. Cement and Concrete Composites, 2021, 122, 104105.	10.7	25
18	Optimizing adhesive bonding between CFRP and Al alloy substrate through resin pre-coating by filling micro-cavities from sandblasting. International Journal of Adhesion and Adhesives, 2021, 110, 102952.	2.9	24

#	ARTICLE	IF	CITATIONS
19	Comprehensive tests and quasi-brittle fracture modeling of light-weight foam concrete with expanded clay aggregates. <i>Cement and Concrete Composites</i> , 2021, 115, 103822.	10.7	29
20	Fracture properties of jointed rock infilled with mortar under uniaxial compression. <i>Engineering Fracture Mechanics</i> , 2020, 228, 106822.	4.3	26
21	Pretreatment using diluted epoxy adhesive resin solution for improving bond strength between steel and wood surfaces. <i>International Journal of Adhesion and Adhesives</i> , 2020, 98, 102502.	2.9	13
22	Loading rate dependence of mode I crack growth in concrete. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2020, 43, 978-990.	3.4	13
23	Effect of resin pre-coating method on repairing subsurface micro-defects in sandstone and granite. <i>Construction and Building Materials</i> , 2020, 264, 120144.	7.2	11
24	Normal distribution analysis of fracture parameters of alkali-activated slag seawater column coral aggregate concrete. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 110, 102794.	4.7	7
25	A study on the failure behavior of Al <sub>2</sub> O <sub>3</sub> -Ni micro-layered beams under three point bending. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 110, 102773.	4.7	15
26	Tensile strength model of bamboo scrimber by 3-p-b fracture test on the basis of non-LEFM. <i>Composites Science and Technology</i> , 2020, 198, 108295.	7.8	26
27	Statistics-assisted fracture modelling of small un-notched and large notched sandstone specimens with specimen-size/grain-size ratio from 30 to 900. <i>Engineering Fracture Mechanics</i> , 2020, 235, 107134.	4.3	42
28	Strengthening and repairing of engineered bamboo-steel epoxy adhesive joints with carbon nanotube on the basis of resin pre-coating method. <i>European Journal of Wood and Wood Products</i> , 2020, 78, 313-320.	2.9	9
29	Modelling and testing of large-scale masonry elements under three-point bending – Tough and strong nacre-like structure enlarged by a factor of 20,000. <i>Engineering Fracture Mechanics</i> , 2020, 229, 106961.	4.3	25
30	Flexure and flexure-after-impact properties of carbon fibre composites interleaved with ultra-thin non-woven aramid fibre veils. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 131, 105813.	7.6	30
31	Transverse and longitudinal flexural properties of unidirectional carbon fiber composites interleaved with hierarchical Aramid pulp micro/nano-fibers. <i>Composites Part B: Engineering</i> , 2020, 188, 107897.	12.0	45
32	Effect of aramid pulp on low temperature flexural properties of carbon fibre reinforced plastics. <i>Composites Science and Technology</i> , 2020, 192, 108095.	7.8	32
33	Critical bending load of CFRP panel with shallow surface scratch determined by a tensile strength model. <i>Composites Science and Technology</i> , 2020, 191, 108072.	7.8	23
34	Effects of nano-grain structures and surface defects on fracture of micro-scaled polysilicon components. <i>Journal of the American Ceramic Society</i> , 2020, 103, 3757-3762.	3.8	14
35	Effect of acetone on mechanical properties of epoxy used for surface treatment before adhesive bonding. <i>Polymer Testing</i> , 2020, 86, 106492.	4.8	17
36	Directing helical CNT into chemically-etched micro-channels on aluminum substrate for strong adhesive bonding with carbon fiber composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2020, 135, 105952.	7.6	28

#	ARTICLE	IF	CITATIONS
37	Interfacial bonding enhancement on the epoxy adhesive joint between engineered bamboo and steel substrates with resin pre-coating surface treatment. <i>Wood Science and Technology</i> , 2019, 53, 785-799.	3.2	28
38	NaOH etching and resin pre-coating treatments for stronger adhesive bonding between CFRP and aluminium alloy. <i>Composites Part B: Engineering</i> , 2019, 178, 107478.	12.0	76
39	Granite strength and toughness from small notched three-point-bend specimens of geometry dissimilarity. <i>Engineering Fracture Mechanics</i> , 2019, 216, 106482.	4.3	62
40	Statistical analysis of concrete fracture using normal distribution pertinent to maximum aggregate size. <i>Theoretical and Applied Fracture Mechanics</i> , 2019, 101, 236-253.	4.7	68
41	Quasi-brittle fracture criterion of bamboo-based fiber composites in transverse direction based on boundary effect model. <i>Composite Structures</i> , 2019, 220, 347-354.	5.8	49
42	Improving impact resistance and residual compressive strength of carbon fibre composites using un-bonded non-woven short aramid fibre veil. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 121, 439-448.	7.6	61
43	Repair of subsurface micro-cracks in rock using resin pre-coating technique. <i>Construction and Building Materials</i> , 2019, 196, 485-491.	7.2	22
44	Elastic-Plastic and Quasi-Brittle Fracture. , 2019, , 1785-1816.		1
45	CNT-reinforced adhesive joint between grit-blasted steel substrates fabricated by simple resin pre-coating method. <i>Journal of Adhesion</i> , 2018, 94, 529-540.	3.0	19
46	Wedge-splitting tests for tensile strength and fracture toughness of concrete. <i>Theoretical and Applied Fracture Mechanics</i> , 2018, 93, 263-275.	4.7	62
47	Influence of grain size on granite strength and toughness with reliability specified by normal distribution. <i>Theoretical and Applied Fracture Mechanics</i> , 2018, 96, 534-544.	4.7	37
48	Prediction of ceramic fracture with normal distribution pertinent to grain size. <i>Acta Materialia</i> , 2018, 145, 41-48.	7.9	54
49	Shear strength of epoxy adhesive joint between steel substrates with indented patterns. <i>Journal of Adhesion</i> , 2017, 93, 657-666.	3.0	4
50	“Steel”-Concrete-Inspired Biofunctional Layered Hybrid Cage for Spine Fusion and Segmental Bone Reconstruction. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 637-647.	5.2	2
51	Comparison of boundary and size effect models based on new developments. <i>Engineering Fracture Mechanics</i> , 2017, 175, 146-167.	4.3	123
52	Effect of Post-weld Heat Treatment on the Fatigue and Fracture Mechanisms of Weld-Repaired Bisplate80 With or Without a Buffer Layer. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 2742-2753.	2.5	2
53	Improvement of adhesive bonding of grit-blasted steel substrates by using diluted resin as a primer. <i>International Journal of Adhesion and Adhesives</i> , 2017, 73, 92-99.	2.9	64
54	Quasi-Z-directional toughening from un-bonded non-woven veil at interface in laminar composites. <i>Composites Communications</i> , 2017, 6, 20-24.	6.3	26

#	ARTICLE	IF	CITATIONS
55	Fracture of 0.1 and 2 m long mortar beams under three-point-bending. <i>Materials and Design</i> , 2017, 133, 363-375.	7.0	44
56	Determination of Tensile Strength and Fracture Toughness of Granite Using Notched Three-Point-Bend Samples. <i>Rock Mechanics and Rock Engineering</i> , 2017, 50, 17-28.	5.4	98
57	Edge Delamination and Residual Properties of Drilled Carbon Fiber Composites with and without Short-Aramid-Fiber Interleaf. <i>Applied Composite Materials</i> , 2016, 23, 973-985.	2.5	11
58	On compressive properties of composite sandwich structures with grid reinforced honeycomb core. <i>Composites Part B: Engineering</i> , 2016, 94, 245-252.	12.0	118
59	Determination of tensile strength and fracture toughness of concrete using notched 3-p-b specimens. <i>Engineering Fracture Mechanics</i> , 2016, 160, 67-77.	4.3	99
60	Benefits of Short Kevlar Fiber Reinforcement at the Interface for Repair of Concrete-Like Materials. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, .	2.9	7
61	In-depth analysis of notched 3-p-b concrete fracture. <i>Engineering Fracture Mechanics</i> , 2016, 165, 57-71.	4.3	81
62	Effects of heterogeneity and load amplitude on fatigue rate prediction of a welded joint. <i>Advances in Mechanical Engineering</i> , 2016, 8, 168781401666396.	1.6	2
63	Characterizing depth-dependent refractive index of articular cartilage subjected to mechanical wear or enzymic degeneration. <i>Journal of Biomedical Optics</i> , 2016, 21, 095002.	2.6	6
64	Preparation of Si <sub>3</sub> N <sub>4</sub> Form Diatomite via a Carbothermal Reduction-Nitridation Process. <i>Jom</i> , 2016, 68, 1456-1464.	1.9	1
65	Enhanced epoxy adhesion between steel plates by surface treatment and CNT/short-fibre reinforcement. <i>Composites Science and Technology</i> , 2016, 127, 149-157.	7.8	65
66	Novel porous calcium aluminate/phosphate nanocomposites: in situ synthesis, microstructure and permeability. <i>Nanoscale</i> , 2016, 8, 3599-3606.	5.6	6
67	Design optimization of a radial functionally graded dental implant. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2016, 104, 58-66.	3.4	12
68	Novel, low-cost solid-liquid-solid process for the synthesis of $\beta$ -Si <sub>3</sub> N <sub>4</sub> nanowires at lower temperatures and their luminescence properties. <i>Scientific Reports</i> , 2015, 5, 17250.	3.3	20
69	Short-aramid-fiber toughening of epoxy adhesive joint between carbon fiber composites and metal substrates with different surface morphology. <i>Composites Part B: Engineering</i> , 2015, 77, 38-45.	12.0	59
70	Adhesive joints between carbon fiber and aluminum foam reinforced by surface-treated aramid fibers. <i>Polymer Composites</i> , 2015, 36, 192-197.	4.6	14
71	Flexural strength and energy absorption of carbon-fiber/aluminum-honeycomb composite sandwich reinforced by aluminum grid. <i>Thin-Walled Structures</i> , 2014, 84, 416-422.	5.3	74
72	Processing and property of carbon-fiber aluminum-foam sandwich with aramid-fiber composite adhesive joints. <i>Journal of Adhesion Science and Technology</i> , 2014, 28, 1835-1845.	2.6	10

#	ARTICLE	IF	CITATIONS
73	Correlation between Cohesive Crack-Tip Local Fracture Energy and Peak Load in Mortar Beams. Journal of Materials in Civil Engineering, 2014, 26, .	2.9	19
74	Processing and Properties of BioCeramic Coatings onto 3D Ti-Mesh by DipCasting Method. International Journal of Applied Ceramic Technology, 2014, 11, 1030-1038.	2.1	2
75	In vitro bioactivity of 3D Ti-mesh with bioceramic coatings in simulated body fluid. Journal of Asian Ceramic Societies, 2014, 2, 210-214.	2.3	11
76	Effects of aramid-fibre toughening on interfacial fracture toughness of epoxy adhesive joint between carbon-fibre face sheet and aluminium substrate. International Journal of Adhesion and Adhesives, 2014, 48, 288-294.	2.9	46
77	Residual stress and softening in welded high-strength low-alloy steel with a buffering layer. Journal of Materials Processing Technology, 2014, 214, 229-237.	6.3	10
78	Low temperature fracture toughness of PMMA and crack-tip conditions under flat-tipped cylindrical indenter. Polymer Testing, 2014, 38, 57-63.	4.8	13
79	Micro-porous calcium phosphate coatings on load-bearing zirconia substrate: Processing, property and application. Ceramics International, 2013, 39, 6533-6542.	4.8	14
80	Porous bio-ceramic coating on zirconia formed through freeze-drying. Materials Letters, 2013, 109, 66-69.	2.6	14
81	Buckling resistance of grid-stiffened carbon-fiber thin-shell structures. Composites Part B: Engineering, 2013, 45, 888-896.	12.0	45
82	Residual stress-induced deformation and fatigue crack growth in weld-repaired high-strength low-alloy steel with soft buffer layer. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 564, 147-157.	5.6	8
83	Tensile overload-induced plastic deformation and fatigue behavior in weld-repaired high-strength low-alloy steel. Journal of Materials Processing Technology, 2013, 213, 2005-2014.	6.3	13
84	Energy-absorption enhancement in carbon-fiber aluminum-foam sandwich structures from short aramid-fiber interfacial reinforcement. Composites Science and Technology, 2013, 77, 14-21.	7.8	92
85	Buckling response of advanced grid stiffened carbon-fiber composite cylindrical shells with reinforced cutouts. Composites Part B: Engineering, 2013, 44, 26-33.	12.0	39
86	Synchronistic preparation of fibre-like SiC and cubic-ZrO <sub>2</sub> /SiC composite from zircon via carbothermal reduction process. Materials Research Bulletin, 2013, 48, 7-11.	5.2	11
87	Nanoscaled Interface Between Microgold Particles and Biphase Glass-Ceramic Matrix. Journal of the American Ceramic Society, 2013, 96, 3662-3669.	3.8	1
88	Effect of buffer layer and notch location on fatigue behavior in welded high-strength low-alloy. Journal of Materials Processing Technology, 2012, 212, 2091-2101.	6.3	22
89	Carbon-fiber aluminum-foam sandwich with short aramid-fiber interfacial toughening. Composites Part A: Applied Science and Manufacturing, 2012, 43, 2059-2064.	7.6	50
90	Synthesis of Zr-N-sialon composites from zircon and alumina by carbothermal reduction-nitridation. Materials Research Bulletin, 2012, 47, 3273-3276.	5.2	8

#	ARTICLE	IF	CITATIONS
91	Processing and properties of pressable ceramic with non-uniform reinforcement for selective-toughening. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 558, 543-549.	5.6	6
92	Deposition of Micro-Porous Hydroxyapatite/Tri-Calcium Phosphate Coating on Zirconia-Based Substrate. <i>Journal of the American Ceramic Society</i> , 2012, 95, 1212-1215.	3.8	26
93	Effect of microstructure on mechanical properties in weld-repaired high strength low alloy steel. <i>Materials &amp; Design</i> , 2012, 36, 233-242.	5.1	46
94	Microstructure characteristics and fatigue properties of welded HSLA with and without buffer layer. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 546, 169-179.	5.6	14
95	Determination of fracture toughness of brittle polymers from contact crack induced by flat-tipped cylindrical indenter. <i>Polymer Testing</i> , 2012, 31, 765-769.	4.8	4
96	Fatigue and hardness effects of a thin buffer layer on the heat affected zone of a weld repaired Bisplate80. <i>Journal of Materials Processing Technology</i> , 2012, 212, 393-401.	6.3	10
97	Surface Modification and Microstructure Design of Alumina Ceramics. <i>Journal of the American Ceramic Society</i> , 2011, 94, 2764-2766.	3.8	6
98	Size effect on tensile softening relation. <i>Materials and Structures/Materiaux Et Constructions</i> , 2011, 44, 129-138.	3.1	10
99	Fatigue crack growth behavior in weld-repaired high-strength low-alloy steel. <i>Engineering Fracture Mechanics</i> , 2011, 78, 1862-1875.	4.3	24
100	Closure to "Mechanism behind the Size Effect Phenomenon" by Xiaozhi Hu and Kai Duan. <i>Journal of Engineering Mechanics - ASCE</i> , 2011, 137, 304-305.	2.9	0
101	Characterization of High-Gadolinium $Y_{0.6}Gd_{1.34}Eu_{0.06}O_3$ Powder and Fabrication of Transparent Ceramic Scintillator Using Pressureless Sintering. <i>International Journal of Applied Ceramic Technology</i> , 2010, 7, E1.	2.1	6
102	Analytical solution for the pull-out response of FRP rods embedded in steel tubes filled with cement grout. <i>Materials and Structures/Materiaux Et Constructions</i> , 2010, 43, 597-609.	3.1	48
103	Dynamic fracture analysis of adhesive bonded material under normal loading. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2010, 26, 107-112.	3.4	0
104	Analytical Solution for Fracture Analysis of CFRP Sheet-Strengthened Cracked Concrete Beams. <i>Journal of Engineering Mechanics - ASCE</i> , 2010, 136, 1202-1219.	2.9	13
105	Mechanism behind the Size Effect Phenomenon. <i>Journal of Engineering Mechanics - ASCE</i> , 2010, 136, 60-68.	2.9	74
106	Analytical Method for Failure of Anchor-Grout-Concrete Anchorage due to Concrete Cone Failure and Interfacial Debonding. <i>Journal of Structural Engineering</i> , 2009, 135, 356-365.	3.4	13
107	Stochastic elasto-plastic fracture analysis of aluminum foams. <i>Acta Mechanica Solida Sinica</i> , 2009, 22, 276-282.	1.9	0
108	Size effect and quasi-brittle fracture: the role of FPZ. <i>International Journal of Fracture</i> , 2008, 154, 3-14.	2.2	166

#	ARTICLE	IF	CITATIONS
109	Theoretical analysis on pullout of anchor from anchor-mortar-concrete anchorage system. Engineering Fracture Mechanics, 2008, 75, 961-985.	4.3	39
110	Analytical Method for Pullout of Anchor from Anchor-Mortar-Concrete Anchorage System due to Shear Failure of Mortar. Journal of Engineering Mechanics - ASCE, 2007, 133, 1352-1369.	2.9	18
111	Margin failures in brittle dome structures: Relevance to failure of dental crowns. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2007, 80B, 78-85.	3.4	61
112	Size effect on specific fracture energy of concrete. Engineering Fracture Mechanics, 2007, 74, 87-96.	4.3	89
113	Size effect: Influence of proximity of fracture process zone to specimen boundary. Engineering Fracture Mechanics, 2007, 74, 1093-1100.	4.3	104
114	Modified essential work of fracture model for polymer fracture. Composites Science and Technology, 2006, 66, 3172-3178.	7.8	12
115	An analytical model to predict the effective fracture toughness of concrete for three-point bending notched beams. Engineering Fracture Mechanics, 2006, 73, 2166-2191.	4.3	46
116	Synthesis of yttria nanopowders for transparent yttria ceramics. Optical Materials, 2006, 29, 239-245.	3.6	73
117	Scaling of quasi-brittle fracture: Boundary and size effect. Mechanics of Materials, 2006, 38, 128-141.	3.2	94
118	Effect of off-axis concentrated loading on failure of curved brittle layer structures. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2006, 76B, 334-339.	3.4	34
119	<title>Size effect on quasi-brittle fracture</title> . , 2005, 5852, 289.		0
120	Applications of Boundary Effect Model to Quasi-Brittle Fracture of Concrete and Rock. Journal of Advanced Concrete Technology, 2005, 3, 413-422.	1.8	7
121	Influence of fracture process zone height on fracture energy of concrete. Cement and Concrete Research, 2004, 34, 1321-1330.	11.0	97
122	Substrate constraint and adhesive thickness effects on fracture toughness of adhesive joints. Journal of Adhesion Science and Technology, 2004, 18, 39-53.	2.6	51
123	Boundary effect on concrete fracture and non-constant fracture energy distribution. Engineering Fracture Mechanics, 2003, 70, 2257-2268.	4.3	156
124	Size effect on toughness induced by crack close to free surface. Engineering Fracture Mechanics, 2000, 65, 209-221.	4.3	229
125	Time-dependent fracture of a two-phase brittle material. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1992, 66, 173-186.	0.6	0
126	Crack Tip Shielding in Ceramic and Cementitious Materials Subjected to Monotonic and Cyclic Loading. Applied Mechanics Reviews, 1992, 45, 346-354.	10.1	8



#	ARTICLE	IF	CITATIONS
127	Crack-Bridging Analysis for Alumina Ceramics under Monotonic and Cyclic Loading. Journal of the American Ceramic Society, 1992, 75, 848-853.	3.8	56
128	An analytical method to determine the bridging stress transferred within the fracture process zone: I, general theory. Cement and Concrete Research, 1991, 21, 1118-1128.	11.0	31
129	Fracture process zone in cementitious materials. International Journal of Fracture, 1991, 51, 3-18.	2.2	68
130	Experimental Method to Determine Extension of Fracture Process Zone. Journal of Materials in Civil Engineering, 1990, 2, 15-23.	2.9	54
131	A statistical theory of time-dependent fracture for cementitious materials subjected to cyclic loading. Journal of Materials Science, 1989, 24, 3118-3122.	3.7	6