## Zhongâ€āħ Li

List of Publications by Year in descending order

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		66343	95266
119	5,314	42	68
papers	citations	h-index	g-index
121	121	121	5184
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Fluorescence enhancements of benzene-cored luminophors by restricted intramolecular rotations: AIE and AIEE effects. Chemical Communications, 2007, , 70-72.	4.1	381
2	An Imidazole-Functionalized Polyfluorene Derivative as Sensitive Fluorescent Probe for Metal Ions and Cyanide. Macromolecules, 2008, 41, 7433-7439.	4.8	184
3	Rational Design of Dipolar Chromophore as an Efficient Dopant-Free Hole-Transporting Material for Perovskite Solar Cells. Journal of the American Chemical Society, 2016, 138, 11833-11839.	13.7	178
4	Structural Control of the Side-Chain Chromophores To Achieve Highly Efficient Nonlinear Optical Polyurethanes. Macromolecules, 2006, 39, 6951-6961.	4.8	148
5	Convenient Attachment of Highly Polar Azo Chromophore Moieties to Disubstituted Polyacetylene through Polymer Reactions by Using "Click―Chemistry. Macromolecules, 2007, 40, 5634-5637.	4.8	146
6	Recent advances in molecular design of functional conjugated polymers for high-performance polymer solar cells. Progress in Polymer Science, 2019, 99, 101175.	24.7	140
7	Highâ€Generation Secondâ€Order Nonlinear Optical (NLO) Dendrimers: Convenient Synthesis by Click Chemistry and the Increasing Trend of NLO Effects. Angewandte Chemie - International Edition, 2010, 49, 2763-2767.	13.8	139
8	Engineering 2D Photocatalysts toward Carbon Dioxide Reduction. Advanced Energy Materials, 2021, 11, 2003159.	19.5	130
9	Dopantâ€Free Squaraineâ€Based Polymeric Holeâ€Transporting Materials with Comprehensive Passivation Effects for Efficient Allâ€Inorganic Perovskite Solar Cells. Angewandte Chemie - International Edition, 2019, 58, 17724-17730.	13.8	118
10	High-performance organic second- and third-order nonlinear optical materials for ultrafast information processing. Journal of Materials Chemistry C, 2020, 8, 15009-15026.	5.5	117
11	New Azo-Chromophore-Containing Hyperbranched Polytriazoles Derived from AB <sub>2</sub> Monomers via Click Chemistry under Copper(I) Catalysis. Macromolecules, 2009, 42, 1589-1596.	4.8	115
12	Charge-transport layer engineering in perovskite solar cells. Science Bulletin, 2020, 65, 1237-1241.	9.0	115
13	Fluoranthene-based dopant-free hole transporting materials for efficient perovskite solar cells. Chemical Science, 2018, 9, 2698-2704.	7.4	109
14	Efficient Inverted Perovskite Solar Cells with Low Voltage Loss Achieved by a Pyridineâ€Based Dopantâ€Free Polymer Semiconductor. Angewandte Chemie - International Edition, 2021, 60, 7227-7233.	13.8	107
15	Highly Efficient and Stable Perovskite Solar Cells Enabled by All-Crosslinked Charge-Transporting Layers. Joule, 2018, 2, 168-183.	24.0	105
16	A Lowâ€Temperature, Solutionâ€Processable Organic Electronâ€Transporting Layer Based on Planar Coronene for Highâ€performance Conventional Perovskite Solar Cells. Advanced Materials, 2016, 28, 10786-10793.	21.0	102
17	From Controllable Attached Isolation Moieties to Possibly Highly Efficient Nonlinear Optical Main-Chain Polyurethanes Containing Indole-Based Chromophores. Journal of Physical Chemistry B, 2007, 111, 508-514.	2.6	87
18	An Attempt To Modify Nonlinear Optical Effects of Polyurethanes by Adjusting the Structure of the Chromophore Moieties at the Molecular Level Using "Click―Chemistry. Macromolecules, 2006, 39, 8544-8546.	4.8	86

#	Article	IF	CITATIONS
19	A structure–property study of fluoranthene-cored hole-transporting materials enables 19.3% efficiency in dopant-free perovskite solar cells. Chemical Science, 2019, 10, 6899-6907.	7.4	79
20	Nonlinear Optical Dendrimers from Click Chemistry: Convenient Synthesis, New Function of the Formed Triazole Rings, and Enhanced NLO Effects. Macromolecules, 2009, 42, 3864-3868.	4.8	73
21	Dopant-free dicyanofluoranthene-based hole transporting material with low cost enables efficient flexible perovskite solar cells. Nano Energy, 2021, 82, 105701.	16.0	68
22	New hyperbranched polymers containing second-order nonlinear optical chromophores: Synthesis and nonlinear optical characterization. Polymer, 2006, 47, 7881-7888.	3.8	67
23	Merocyanine with Hole-Transporting Ability and Efficient Defect Passivation Effect for Perovskite Solar Cells. ACS Energy Letters, 2021, 6, 869-876.	17.4	64
24	Novel second-order nonlinear optical main-chain polyurethanes: Adjustable subtle structure, improved thermal stability and enhanced nonlinear optical property. Polymer, 2007, 48, 5520-5529.	3.8	62
25	Facile Thiolâ€Ene Thermal Crosslinking Reaction Facilitated Holeâ€Transporting Layer for Highly Efficient and Stable Perovskite Solar Cells. Advanced Energy Materials, 2016, 6, 1601165.	19.5	62
26	New Azo Chromophoreâ€Containing Conjugated Polymers: Facile Synthesis by Using "Click―Chemistry and Enhanced Nonlinear Optical Properties Through the Introduction of Suitable Isolation Groups. Macromolecular Rapid Communications, 2008, 29, 136-141.	3.9	61
27	Technical Challenges and Perspectives for the Commercialization of Solutionâ€Processable Solar Cells. Advanced Materials Technologies, 2021, 6, .	5.8	60
28	Squaraine Dyes for Photovoltaic and Biomedical Applications. Advanced Functional Materials, 2021, 31, 2008201.	14.9	59
29	New PVKâ€based nonlinear optical polymers: Enhanced nonlinearity and improved transparency. Journal of Polymer Science Part A, 2008, 46, 2983-2993.	2.3	57
30	Highly Sensitive Builtâ€In Strain Sensors for Polymer Composites: Fluorescence Turnâ€On Response through Mechanochemical Activation. Advanced Materials, 2016, 28, 6592-6597.	21.0	56
31	Crosstalkâ€Free Patterning of Cooperativeâ€Thermoresponse Images by the Synergy of the AIEgen with the Liquid Crystal. Angewandte Chemie - International Edition, 2020, 59, 10066-10072.	13.8	56
32	Dopantâ€Free Crossconjugated Holeâ€Transporting Polymers for Highly Efficient Perovskite Solar Cells. Advanced Science, 2020, 7, 1903331.	11.2	55
33	A New Carbazole onstructed Hyperbranched Polymer: Convenient Oneâ€Pot Synthesis, Holeâ€Transporting Ability, and Fieldâ€Effect Transistor Properties. Advanced Functional Materials, 2009, 19, 2677-2683.	14.9	54
34	Controlling nonlinear optical effects of polyurethanes by adjusting isolation spacers through facile postfunctional polymer reactions. Polymer, 2007, 48, 3650-3657.	3.8	53
35	Supramolecular Assembly of Complementary Cyanine Salt J-Aggregates. Journal of the American Chemical Society, 2015, 137, 11920-11923.	13.7	53
36	A ring-locking strategy to enhance the chemical and photochemical stability of A–D–A-type non-fullerene acceptors. Journal of Materials Chemistry A, 2021, 9, 1080-1088.	10.3	52

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37	Recent Advances of Dopant-Free Polymer Hole-Transporting Materials for Perovskite Solar Cells. ACS Applied Energy Materials, 2020, 3, 10282-10302.	5.1	50
38	Highly efficient polymer light-emitting diodes using color-tunable carbazole-based iridium complexes. Chemical Physics Letters, 2006, 422, 386-390.	2.6	49
39	Highly efficient iridium(III) complexes with diphenylquinoline ligands for organic light-emitting diodes: Synthesis and effect of fluorinated substitutes on electrochemistry, photophysics and electroluminescence. Journal of Organometallic Chemistry, 2006, 691, 4312-4319.	1.8	47
40	A pseudo-two-dimensional conjugated polysquaraine: an efficient p-type polymer semiconductor for organic photovoltaics and perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 13644-13651.	10.3	47
41	New series of AB <sub>2</sub> â€type hyperbranched polytriazoles derived from the same polymeric intermediate: Different endcapping spacers with adjustable bulk and convenient syntheses via click chemistry under copper(I) catalysis. Journal of Polymer Science Part A, 2011, 49, 1977-1987.	2.3	45
42	Recent advances in the design of dopant-free hole transporting materials for highly efficient perovskite solar cells. Chinese Chemical Letters, 2018, 29, 219-231.	9.0	45
43	Dendronized Polyfluorenes with High Azo-Chromophore Loading Density: Convenient Synthesis and Enhanced Second-Order Nonlinear Optical Effects. Macromolecules, 2009, 42, 6463-6472.	4.8	42
44	Dendronlike Main-Chain Nonlinear Optical (NLO) Polyurethanes Constructed from "H―Type Chromophores: Synthesis and NLO Properties. ACS Applied Materials & Interfaces, 2009, 1, 856-863.	8.0	42
45	Efficient 3D printing via photooxidation of ketocoumarin based photopolymerization. Nature Communications, 2021, 12, 2873.	12.8	41
46	A New Approach to Fluorescence "Turn-On―Sensing of <i>α</i> -Amino Acids. ACS Applied Materials & Interfaces, 2009, 1, 232-234.	8.0	37
47	New hyperbranched polyaryleneethynylene containing azobenzenechromophore moieties in the main chain: facile synthesis, large optical nonlinearity and high thermal stability. Polymer Chemistry, 2010, 1, 78-81.	3.9	37
48	Efficient all polymer solar cells from layer-evolved processing of a bilayer inverted structure. Journal of Materials Chemistry C, 2014, 2, 416-420.	5.5	37
49	Emerging Chemistry in Enhancing the Chemical and Photochemical Stabilities of Fusedâ€Ring Electron Acceptors in Organic Solar Cells. Advanced Functional Materials, 2021, 31, 2106735.	14.9	36
50	Two Types of Nonlinear Optical Polyurethanes Containing the Same Isolation Groups: Syntheses, Optical Properties, and Influence of Binding Mode. Journal of Physical Chemistry B, 2009, 113, 14943-14949.	2.6	35
51	Doping Versatile n-Type Organic Semiconductors via Room Temperature Solution-Processable Anionic Dopants. ACS Applied Materials & Interfaces, 2017, 9, 1136-1144.	8.0	35
52	Squaraine-based AIEgens for reversible mechanochromism, sensitive and selective hypochlorite detection and photostable far-red fluorescence cell imaging. Materials Chemistry Frontiers, 2020, 4, 2688-2696.	5.9	35
53	Designing Squaraine Dyes with Bright Deepâ€Red Aggregationâ€Induced Emission for Specific and Ratiometric Fluorescent Detection of Hypochlorite. Advanced Functional Materials, 2021, 31, 2105452.	14.9	34
54	Conjugated Polycyanines: A New Class of Materials with Large Thirdâ€Order Optical Nonlinearities. Advanced Optical Materials, 2015, 3, 900-906.	7.3	33

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55	New azobenzene-containing polyurethanes: Post-functional strategy and second-order nonlinear optical properties. Dyes and Pigments, 2008, 78, 199-206.	3.7	32
56	New Hyperbranched Conjugated Polymers Containing Hexaphenylbenzene and Oxadiazole Units: Convenient Synthesis and Efficient Deep Blue Emitters for PLEDs Application. Journal of Physical Chemistry B, 2010, 114, 9101-9108.	2.6	32
57	New main-chain hyperbranched polymers: Facile synthesis, structural control, and second-order nonlinear optical properties. Polymer, 2012, 53, 153-160.	3.8	32
58	Triphenylamine-based ï€-conjugated dendrimers: convenient synthesis, easy solution processability, and good hole-transporting properties. Journal of Materials Chemistry C, 2015, 3, 2016-2023.	5.5	32
59	On the interface reactions and stability of nonfullerene organic solar cells. Chemical Science, 2022, 13, 4714-4739.	7.4	32
60	"H―shape second order NLO polymers: synthesis and characterization. Physical Chemistry Chemical Physics, 2009, 11, 1220.	2.8	30
61	Anionic Cyanine Jâ€Type Aggregate Nanoparticles with Enhanced Photosensitization for Mitochondriaâ€Targeting Tumor Phototherapy. Angewandte Chemie - International Edition, 2022, 61, .	13.8	30
62	Effects of Counterions with Multiple Charges on the Linear and Nonlinear Optical Properties of Polymethine Salts. Chemistry of Materials, 2016, 28, 3115-3121.	6.7	29
63	Facile Incorporation of Pd(PPh <sub>3</sub> ) <sub>2</sub> Hal Substituents into Polymethines, Merocyanines, and Perylene Diimides as a Means of Suppressing Intermolecular Interactions. Journal of the American Chemical Society, 2016, 138, 10112-10115.	13.7	29
64	Highâ€Opticalâ€Quality Blends of Anionic Polymethine Salts and Polycarbonate with Enhanced Thirdâ€Order Nonâ€linearities for Siliconâ€Organic Hybrid Devices. Advanced Materials, 2012, 24, OP326-30.	21.0	28
65	Ar–Ar <sup>F</sup> Selfâ€Assembly of Starâ€Shaped Secondâ€Order Nonlinear Optical Chromophores Achieving Large Macroscopic Nonlinearities. Advanced Electronic Materials, 2017, 3, 1700138.	5.1	27
66	New second-order nonlinear optical polymers containing the same isolation groups: Optimized syntheses and nonlinear optical properties. Polymer, 2008, 49, 901-913.	3.8	26
67	New push–pull polyene chromophores containing a Michler's base donor and a tricyanofuran acceptor: multicomponent condensation, allopolar isomerism and large optical nonlinearity. Journal of Materials Chemistry C, 2017, 5, 2230-2234.	5.5	26
68	Design, synthesis, and properties of nonlinear optical chromophores based on a verbenone bridge with a novel dendritic acceptor. Journal of Materials Chemistry C, 2018, 6, 2840-2847.	5.5	26
69	Interfacial AIE for Orthogonal Integration of Holographic and Fluorescent Dualâ€Thermosensitive Images. Advanced Science, 2022, 9, e2105903.	11.2	26
70	Dipolar Chromophore Facilitated Huisgen Cross-Linking Reactions for Highly Efficient and Thermally Stable Electrooptic Polymers. ACS Macro Letters, 2012, 1, 793-796.	4.8	25
71	Click modification of azo-containing polyurethanes through polymer reaction: Convenient, adjustable structure and enhanced nonlinear optical properties. Dyes and Pigments, 2009, 81, 264-272.	3.7	23
72	Solution-processable ï€-conjugated dendrimers with hole-transporting, electroluminescent and fluorescent pattern properties. Journal of Materials Chemistry, 2011, 21, 14663.	6.7	23

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73	Syntheses and second-order nonlinear optical properties of a series of new "H―shape polymers. Dyes and Pigments, 2012, 94, 16-22.	3.7	23
74	The role of introduced isolation groups in PVK-based nonlinear optical polymers: Enlarged nonlinearity, improved processibility, and enhanced thermal stability. Polymer, 2009, 50, 2806-2814.	3.8	22
75	Quasi-three-level model applied to measured spectra of nonlinear absorption and refraction in organic molecules. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 780.	2.1	22
76	New light-emitting hyperbranched polymers prepared from tribromoaryls and 9,9-dihexylfluorene-2,7-bis(trimethyleneborate). Polymer, 2006, 47, 7889-7899.	3.8	20
77	New Secondâ€Order Nonlinear Optical Polymers Derived from AB <sub>2</sub> and AB Monomers via Sonogashira Coupling Reaction. Macromolecular Chemistry and Physics, 2010, 211, 916-923.	2.2	20
78	A Correlation Study between Dendritic Structure and Macroscopic Nonlinearity for Second-Order Nonlinear Optical Materials. Macromolecules, 2020, 53, 4012-4021.	4.8	20
79	Rhodanine-based nonfullerene acceptors for organic solar cells. Science China Materials, 2019, 62, 1574-1596.	6.3	19
80	Dopantâ€Free Squaraineâ€Based Polymeric Holeâ€Transporting Materials with Comprehensive Passivation Effects for Efficient Allâ€Inorganic Perovskite Solar Cells. Angewandte Chemie, 2019, 131, 17888-17894.	2.0	18
81	Efficient Inverted Perovskite Solar Cells with Low Voltage Loss Achieved by a Pyridineâ€Based Dopantâ€Free Polymer Semiconductor. Angewandte Chemie, 2021, 133, 7303-7309.	2.0	18
82	Tetrathienodibenzocarbazole Based Donor–Acceptor Type Wide Band-Gap Copolymers for Polymer Solar Cell Applications. Macromolecules, 2014, 47, 7407-7415.	4.8	17
83	Zwitterionic Cyanine–Cyanine Salt: Structure and Optical Properties. Journal of Physical Chemistry C, 2016, 120, 15378-15384.	3.1	17
84	Novel, side-on, PVK-based nonlinear optical polymers: Synthesis and NLO properties. Dyes and Pigments, 2010, 84, 134-139.	3.7	16
85	Built-in voltage enhanced by <i>in situ</i> electrochemical polymerized undoped conjugated hole-transporting modifiers in organic solar cells. Journal of Materials Chemistry C, 2020, 8, 2676-2681.	5.5	16
86	Hole transporting layer engineering via a zwitterionic polysquaraine toward efficient inverted perovskite solar cells. Chemical Engineering Journal, 2022, 445, 136760.	12.7	15
87	A TCBD-based AB <sub>2</sub> -type second-order nonlinear optical hyperbranched polymer prepared by a facile click-type postfunctionalization. Polymer Chemistry, 2020, 11, 5493-5499.	3.9	13
88	Systematic study of the structure-property relationship of a series of near-infrared absorbing push-pull heptamethine chromophores for electro-optics. Science China Chemistry, 2021, 64, 263-273.	8.2	13
89	Butterfly-shaped asymmetric squaraine dimers for organic photovoltaics. Journal of Materials Chemistry C, 2018, 6, 10547-10556.	5.5	12
90	Cationic Polyelectrolyte for Anionic Cyanines: An Efficient Way To Translate Molecular Properties into Material Properties. Journal of the American Chemical Society, 2019, 141, 17331-17336.	13.7	12

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91	Deepâ€Red Emissive Squaraineâ€AlEgen in Elastomer Enabling High Contrast and Fast Thermoresponse for Antiâ€Counterfeiting and Temperature Sensing**. Chemistry - A European Journal, 2022, 28, .	3.3	12
92	New Carbazoleâ€Based Hyperbranched Conjugated Polymer with Good Holeâ€Transporting Properties. Macromolecular Chemistry and Physics, 2010, 211, 1820-1825.	2.2	11
93	Recent Progress of Squaraine-Based Fluorescent Materials and Their Biomedical Applications. Symmetry, 2022, 14, 966.	2.2	11
94	New "Y―type nonlinear optical chromophores with good transparency and enhanced nonlinear optical effects. Materials Letters, 2007, 61, 1151-1153.	2.6	10
95	An asymmetric 2,3-fluoranthene imide building block for regioregular semiconductors with aggregation-induced emission properties. Chemical Science, 2022, 13, 996-1002.	7.4	10
96	Insights into molecular packing effects on the emission properties of fluorenone-based molecules in the aggregate state. Journal of Materials Chemistry C, 2021, 9, 13687-13696.	5.5	9
97	Tetracyanobutadienylâ€Based Nonlinear Optical Dendronized Hyperbranched Polymer Synthesized via [2+2]ACycloaddition Polymer Postfunctionalization. Macromolecular Rapid Communications, 2022, 43, e2200179.	3.9	9
98	Vibrational spectral investigation of four second order nonlinear optical azobenzene-containing materials: A combination of experimental and density functional theoretical (DFT) study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2011, 79, 1976-1984.	3.9	8
99	Crosstalkâ€Free Patterning of Cooperativeâ€Thermoresponse Images by the Synergy of the AlEgen with the Liquid Crystal. Angewandte Chemie, 2020, 132, 10152-10158.	2.0	8
100	Synthesis, structure and material properties of thiopyranylidene-based asymmetrical squaraines. Dyes and Pigments, 2018, 154, 137-144.	3.7	7
101	Nonlinear refraction and absorption measurements of thin films by the dual-arm Z-scan method. Applied Optics, 2019, 58, D28.	1.8	7
102	Rational Design of 2D p–π Conjugated Polysquaraines for Both Fullerene and Nonfullerene Polymer Solar Cells. Macromolecular Chemistry and Physics, 2020, 221, 1900439.	2.2	6
103	Plasmonâ€Enhanced Photocatalytic Activity of Organic Heterostructure for Indoorâ€Light Antibacterial Therapy. Advanced Therapeutics, 2022, 5, .	3.2	6
104	Anionic Cyanine Jâ€ŧype Aggregate Nanoparticles with Enhanced Photosensitization for Mitochondriaâ€ŧargeting Tumor Phototherapy. Angewandte Chemie, 0, , .	2.0	5
105	Enhanced third harmonic generation by organic materials on high-Q plasmonic photonic crystals. Optics Express, 2014, 22, 20292.	3.4	4
106	Photostable squaraine dimers for organic solar cells with a high open circuit voltage exceeding 1.0ÂV. Dyes and Pigments, 2021, 194, 109633.	3.7	4
107	Unfused Nonfullerene Acceptors Based on Simple Dipolar Merocyanines. Chemistry - A European Journal, 2021, 27, 18103-18108.	3.3	4
108	AÂNew Diazabenzo[ <i>k</i> ]fluorantheneâ€BasedÂDâ€A Conjugated Polymer Donor for Efficient Organic Solar Cells. Macromolecular Rapid Communications, 2022, 43, e2200276.	3.9	4

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109	Convenient Synthesis and Enhanced Second-order Nonlinear Optical Property of a Novel Hyperbranched Polymer. Chinese Journal of Chemistry, 2007, 25, 237-240.	4.9	3

## 110 Squaraine Dyes: Squaraine Dyes for Photovoltaic and Biomedical Applications (Adv. Funct. Mater.) Tj ETQq0 0 0 rgBT /0 verlock 10 Tf 50

111	A New Approach to C60-Contanining Polyphosphazenes by Polymerization of Phosphonitrile Chloride Trimer in the Presence of C60. Chinese Journal of Chemistry, 2007, 25, 406-410.	4.9	2
112	New nonlinear optical polyurethanes with adjusted subtle structure through Sonogashira coupling reaction. Polymers for Advanced Technologies, 2011, 22, 675-681.	3.2	2
113	Synthesis and Properties of Two Secondâ€Order Nonlinear Optical Polymers: an Attempt toward the Balance between Nonlinearity and Transparence against Intrinsic Tradeâ€off. Chinese Journal of Chemistry, 2008, 26, 328-332.	4.9	1
114	Quasi-three-level model applied to measured spectra of nonlinear absorption and refraction in organic molecules: publisher's note. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 1007.	2.1	1
115	Conjugated polysquaraines synthesized by polycondensation: Physical, optical, and charge transport properties. Dyes and Pigments, 2020, 175, 108162.	3.7	1
116	Surface-plasmon-enhanced third-order harmonic generation of organic materials. Proceedings of SPIE, 2014, , .	0.8	0
117	Nonlinear spectra/dispersion of quinolinium dyes using dual-arm Z-scan. , 2013, , .		0
118	Plasmon-Enhanced Third-Order Harmonic Generation in Plasmonic-Organic Photonic Crystals. , 2014, ,		0
119	Phenalene—A New Ring-Locked Vinyl Bridge for Nonfullerene Acceptors With Enhanced Chemical and Photochemical Stabilities. Frontiers in Electronic Materials, 2022, 2, .	3.1	0