

Ryan M Young

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122
papers

3,500
citations

33
h-index

54
g-index

133
ext. papers

4,355
ext. citations

11.3
avg, IF

5.63
L-index

#	Paper	IF	Citations
122	Enabling singlet fission by controlling intramolecular charge transfer in stacked covalent terrylenediimide dimers. <i>Nature Chemistry</i> , 2016 , 8, 1120-1125	17.6	205
121	Supramolecular Explorations: Exhibiting the Extent of Extended Cationic Cyclophanes. <i>Accounts of Chemical Research</i> , 2016 , 49, 262-73	24.3	144
120	Unified model for singlet fission within a non-conjugated covalent pentacene dimer. <i>Nature Communications</i> , 2017 , 8, 15171	17.4	143
119	Direct Observation of Ultrafast Excimer Formation in Covalent Perylenediimide Dimers Using Near-Infrared Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 2588-93	6.4	133
118	Dynamics of solvated electrons in clusters. <i>Chemical Reviews</i> , 2012 , 112, 5553-77	68.1	117
117	Ultrafast conformational dynamics of electron transfer in ExBox4+?perylene. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 12438-48	2.8	109
116	Direct Observation of a Charge-Transfer State Preceding High-Yield Singlet Fission in Terrylenediimide Thin Films. <i>Journal of the American Chemical Society</i> , 2017 , 139, 663-671	16.4	107
115	Energy flow dynamics within cofacial and slip-stacked perylene-3,4-dicarboximide dimer models of aggregates. <i>Journal of the American Chemical Society</i> , 2014 , 136, 14912-23	16.4	100
114	Relative unidirectional translation in an artificial molecular assembly fueled by light. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18609-20	16.4	93
113	Ultrafast Photoinduced Symmetry-Breaking Charge Separation and Electron Sharing in Perylenediimide Molecular Triangles. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13236-9	16.4	90
112	Processing Strategies for an Organic Photovoltaic Module with over 10% Efficiency. <i>Joule</i> , 2020 , 4, 189-206	6.8	87
111	Hole-Transfer Dependence on Blend Morphology and Energy Level Alignment in Polymer: ITIC Photovoltaic Materials. <i>Advanced Materials</i> , 2018 , 30, 1704263	24	85
110	Singlet Fission in Covalent Terrylenediimide Dimers: Probing the Nature of the Multiexciton State Using Femtosecond Mid-Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9184-9192	16.4	75
109	Evidence for Charge-Transfer Mediation in the Primary Events of Singlet Fission in a Weakly Coupled Pentacene Dimer. <i>Chem</i> , 2018 , 4, 1092-1111	16.2	74
108	Excimer Formation and Symmetry-Breaking Charge Transfer in Cofacial Perylene Dimers. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 1607-1615	2.8	69
107	Guest and solvent modulated photo-driven charge separation and triplet generation in a perylene bisimide cyclophane. <i>Chemical Science</i> , 2016 , 7, 5428-5434	9.4	58
106	Quintet-triplet mixing determines the fate of the multiexciton state produced by singlet fission in a terrylenediimide dimer at room temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 8178-8183	11.5	53

105	Mixed Electronic States in Molecular Dimers: Connecting Singlet Fission, Excimer Formation, and Symmetry-Breaking Charge Transfer. <i>Accounts of Chemical Research</i> , 2020 , 53, 1957-1968	24.3	52
104	Photodriven quantum teleportation of an electron spin state in a covalent donor-acceptor-radical system. <i>Nature Chemistry</i> , 2019 , 11, 981-986	17.6	51
103	An allosteric photoredox catalyst inspired by photosynthetic machinery. <i>Nature Communications</i> , 2015 , 6, 6541	17.4	49
102	Probing Distance Dependent Charge-Transfer Character in Excimers of Extended Viologen Cyclophanes Using Femtosecond Vibrational Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14265-14276	16.4	48
101	Singlet Fission in 9,10-Bis(phenylethynyl)anthracene Thin Films. <i>Journal of the American Chemical Society</i> , 2018 , 140, 15140-15144	16.4	48
100	Influence of Anion Delocalization on Electron Transfer in a Covalent Porphyrin Donor-Perylenediimide Dimer Acceptor System. <i>Journal of the American Chemical Society</i> , 2017 , 139, 749-756	16.4	45
99	Energy and Electron Transfer Dynamics within a Series of Perylene Diimide/Cyclophane Systems. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15299-307	16.4	45
98	Photoinduced electron transfer from rylenediimide radical anions and dianions to Re(bpy)(CO) using red and near-infrared light. <i>Chemical Science</i> , 2017 , 8, 3821-3831	9.4	44
97	Electron Hopping and Charge Separation within a Naphthalene-1,4:5,8-bis(dicarboximide) Chiral Covalent Organic Cage. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3348-3351	16.4	41
96	Direct Observation of the Hole Carriers in DNA Photoinduced Charge Transport. <i>Journal of the American Chemical Society</i> , 2016 , 138, 5491-4	16.4	41
95	Electronic relaxation dynamics in large anionic water clusters: (H ₂ O) _n (-) and (D ₂ O) _n (-) (n = 25-200). <i>Journal of Chemical Physics</i> , 2009 , 131, 194302	3.9	37
94	Solvent-Templated Folding of Perylene Bisimide Macrocycles into Coiled Double-String Ropes with Solvent-Sensitive Optical Signatures. <i>Journal of the American Chemical Society</i> , 2017 , 139, 2014-2021	16.4	35
93	Charge Transport across DNA-Based Three-Way Junctions. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5113-22	16.4	35
92	Enhanced photochemical hydrogen evolution from Fe ₄ S ₄ -based biomimetic chalcogels containing M ₂ ⁺ (M = Pt, Zn, Co, Ni, Sn) centers. <i>Journal of the American Chemical Society</i> , 2014 , 136, 13371-80	16.4	35
91	Charge and spin transport in an organic molecular square. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11971-7	16.4	35
90	A Supramolecular Approach for Modulated Photoprotection, Lysosomal Delivery, and Photodynamic Activity of a Photosensitizer. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12296-12304	16.4	33
89	Electron transfer and multi-electron accumulation in ExBox [®] . <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 5371-5	16.4	33
88	Two-Dimensional Electronic Spectroscopy Reveals Excitation Energy-Dependent State Mixing during Singlet Fission in a Terrylenediimide Dimer. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17907-17914	16.4	33

87	Ultrafast Two-Electron Transfer in a CdS Quantum Dot-Extended-Viologen Cyclophane Complex. <i>Journal of the American Chemical Society</i> , 2016 , 138, 6163-70	16.4	32
86	Intramolecular Energy and Electron Transfer within a Diazaperopyrenium-Based Cyclophane. <i>Journal of the American Chemical Society</i> , 2017 , 139, 4107-4116	16.4	31
85	Photovoltaic Blend Microstructure for High Efficiency Post-Fullerene Solar Cells. To Tilt or Not To Tilt?. <i>Journal of the American Chemical Society</i> , 2019 , 141, 13410-13420	16.4	30
84	Characterization of Excimer Relaxation via Femtosecond Shortwave- and Mid-Infrared Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 784-792	2.8	28
83	Tracking Photoinduced Charge Separation in DNA: from Start to Finish. <i>Accounts of Chemical Research</i> , 2018 , 51, 1746-1754	24.3	28
82	Spin-Selective Photoreduction of a Stable Radical within a Covalent Donor-Acceptor-Radical Triad. <i>Journal of the American Chemical Society</i> , 2017 , 139, 15660-15663	16.4	26
81	Solid-state characterization and photoinduced intramolecular electron transfer in a nanoconfined octacationic homo[2]catenane. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10569-72	16.4	26
80	Time-resolved photoelectron imaging of large anionic methanol clusters: (methanol) _n -(n approximately 145-535). <i>Journal of Chemical Physics</i> , 2007 , 126, 244306	3.9	26
79	Chemically regulating Rh(I)-Bodipy photoredox switches. <i>Chemical Communications</i> , 2014 , 50, 6850-2	5.8	25
78	Modulation of electronics and thermal stabilities of photochromic phosphino-aminoazobenzene derivatives in weak-link approach coordination complexes. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16988-96	16.4	25
77	Photogenerated Spin-Entangled Qubit (Radical) Pairs in DNA Hairpins: Observation of Spin Delocalization and Coherence. <i>Journal of the American Chemical Society</i> , 2019 , 141, 2152-2160	16.4	24
76	Efficient Charge Transport via DNA G-Quadruplexes. <i>Journal of the American Chemical Society</i> , 2017 , 139, 1730-1733	16.4	23
75	Direct measurement of lattice dynamics and optical phonon excitation in semiconductor nanocrystals using femtosecond stimulated Raman spectroscopy. <i>Physical Review Letters</i> , 2013 , 111, 107401	7.4	23
74	Photoinduced electron transfer and solvation in iodide-doped acetonitrile clusters. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 4031-7	3.4	23
73	Symmetry-Breaking Charge Separation in a Nanoscale Terrylenediimide Guanine-Quadruplex Assembly. <i>Journal of the American Chemical Society</i> , 2019 , 141, 17512-17516	16.4	22
72	Substituent Effects on Singlet Exciton Fission in Polycrystalline Thin Films of Cyano-Substituted Diaryltetracenes. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21262-21271	3.8	22
71	Combining Intra- and Intermolecular Charge Transfer with Polycationic Cyclophanes To Design 2D Tessellations. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18727-18739	16.4	21
70	Thermal effects on energetics and dynamics in water cluster anions (H ₂ O) _n (-). <i>Journal of Chemical Physics</i> , 2012 , 136, 094304	3.9	21

69	Covalent Radical Pairs as Spin Qubits: Influence of Rapid Electron Motion between Two Equivalent Sites on Spin Coherence. <i>Journal of the American Chemical Society</i> , 2018 , 140, 13011-13021	16.4	21
68	Conformationally Gated Charge Transfer in DNA Three-Way Junctions. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 2434-8	6.4	20
67	Electrochemical Switching of a Fluorescent Molecular Rotor Embedded within a Bistable Rotaxane. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11835-11846	16.4	19
66	Photoinduced Charge and Energy Transfer within meta- and para-Linked Chlorophyll a-Perylene-3,4:9,10-bis(dicarboximide) Donor-Acceptor Dyads. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 756-65	3.4	19
65	Symmetry-Breaking Charge Separation in the Solid State: Tetra(phenoxy)perylene diimide Polycrystalline Films. <i>Journal of the American Chemical Society</i> , 2020 , 142, 18243-18250	16.4	17
64	Reversible Symmetry-Breaking Charge Separation in a Series of Perylene diimide Cyclophanes. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 10408-10419	3.8	16
63	Photoinduced electron transfer within a zinc porphyrin-cyclobis(paraquat-p-phenylene) donor-acceptor dyad. <i>Chemistry - A European Journal</i> , 2014 , 20, 14690-7	4.8	15
62	Fast photo-driven electron spin coherence transfer: the effect of electron-nuclear hyperfine coupling on coherence dephasing. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7962-7967	7.1	14
61	Electron Transfer and Multi-Electron Accumulation in ExBox4+. <i>Angewandte Chemie</i> , 2014 , 126, 5475-5479	3.6	14
60	Photoelectron imaging of tetrahydrofuran cluster anions (THF) _n ⁻ (1 ≤ n ≤ 10). <i>Journal of Chemical Physics</i> , 2010 , 133, 154312	3.9	14
59	Dynamics of electron solvation in I ⁻ (CH ₃ OH) _n clusters (4 ≤ n ≤ 1). <i>Journal of Chemical Physics</i> , 2011 , 134, 124311	3.9	13
58	Influence of the heavy-atom effect on singlet fission: a study of platinum-bridged pentacene dimers. <i>Chemical Science</i> , 2019 , 10, 11130-11140	9.4	13
57	Quantitative Determination of the Differential Raman Scattering Cross Sections of Glucose by Femtosecond Stimulated Raman Scattering. <i>Analytical Chemistry</i> , 2017 , 89, 6931-6935	7.8	11
56	Substituent effects on energetics and crystal morphology modulate singlet fission in 9,10-bis(phenylethynyl)anthracenes. <i>Journal of Chemical Physics</i> , 2019 , 151, 044501	3.9	11
55	Symmetrized photoinitiated electron flow within the [myoglobin:cytochrome b ₅] complex on singlet and triplet time scales: energetics vs dynamics. <i>Journal of the American Chemical Society</i> , 2014 , 136, 12730-6	16.4	11
54	Time-resolved dynamics in acetonitrile cluster anions (CH ₃ CN) _n ⁻ . <i>Chemical Physics Letters</i> , 2010 , 485, 59-63	2.5	11
53	Photon Upconversion in a Glowing Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2021 , 143, 5053-5059	16.4	11
52	Cooperative Electronic and Structural Regulation in a Bioinspired Allosteric Photoredox Catalyst. <i>Inorganic Chemistry</i> , 2016 , 55, 8301-8	5.1	11

51	Steric Interactions Impact Vibronic and Vibrational Coherences in Perylenediimide Cyclophanes. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7498-7504	6.4	11
50	Influence of Vibronic Coupling on Ultrafast Singlet Fission in a Linear Terrylenediimide Dimer. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2049-2058	16.4	11
49	Choosing sides: unusual ultrafast charge transfer pathways in an asymmetric electron-accepting cyclophane that binds an electron donor. <i>Chemical Science</i> , 2019 , 10, 4282-4292	9.4	10
48	Supramolecular Porous Organic Nanocomposites for Heterogeneous Photocatalysis of a Sulfur Mustard Simulant. <i>Advanced Materials</i> , 2020 , 32, e2001592	24	10
47	Raising the barrier for photoinduced DNA charge injection with a cyclohexyl artificial base pair. <i>Faraday Discussions</i> , 2015 , 185, 105-20	3.6	10
46	Toward a Charged Homo[2]catenane Employing Diazaperopyrenium Homophilic Recognition. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6540-6544	16.4	9
45	Auger Heating and Thermal Dissipation in Zero-Dimensional CdSe Nanocrystals Examined Using Femtosecond Stimulated Raman Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4481-4487	6.4	9
44	Tracking Hole Transport in DNA Hairpins Using a Phenylethynylguanine Nucleobase. <i>Journal of the American Chemical Society</i> , 2017 , 139, 12084-12092	16.4	9
43	Effects of excitation energy on the autodetachment lifetimes of small iodide-doped ROH clusters (R?H-, CH ₃ -, CH ₃ CH(2)-). <i>Journal of Physical Chemistry A</i> , 2012 , 116, 2750-7	2.8	9
42	Charge carrier dynamics in semiconducting mercury cluster anions. <i>Physica Scripta</i> , 2009 , 80, 048102	2.6	9
41	Singlet Fission in Quaterrylenediimide Thin Films. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 2791-2798	3.8	9
40	Quantum Coherence Enhances Electron Transfer Rates to Two Equivalent Electron Acceptors. <i>Journal of the American Chemical Society</i> , 2019 , 141, 12236-12239	16.4	8
39	Non-fullerene acceptors with direct and indirect hexa-fluorination afford >17% efficiency in polymer solar cells. <i>Energy and Environmental Science</i> ,	35.4	8
38	Charge-transfer biexciton annihilation in a donor-acceptor co-crystal yields high-energy long-lived charge carriers. <i>Chemical Science</i> , 2020 , 11, 9532-9541	9.4	8
37	Cyclophane-Sustained Ultrastable Porphyrins. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8938-8945	16.4	7
36	Charge-Transfer Character in Excimers of Perylenediimides Self-Assembled on Anodic Aluminum Oxide Membrane Walls. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 4369-4377	3.8	7
35	Iodide solvation in tetrahydrofuran clusters: I ⁻ (THF) _n (1 ≤ n ≤ 10). <i>Molecular Physics</i> , 2012 , 110, 1787-1799	1.7	7
34	The roles of the solute and solvent cavities in charge-transfer-to-solvent dynamics: ultrafast studies of potassium and sodium in diethyl ether. <i>Journal of Chemical Physics</i> , 2008 , 129, 134503	3.9	7

33	Tuning the charge transfer character of the multiexciton state in singlet fission. <i>Journal of Chemical Physics</i> , 2020 , 153, 094302	3.9	7
32	Electron-catalysed molecular recognition.. <i>Nature</i> , 2022 , 603, 265-270	50.4	7
31	Photo-initiated multi-step electron transfer in donor-acceptor systems using a novel bi-functionalized perylene chromophore. <i>Chemical Physics Letters</i> , 2015 , 629, 23-28	2.5	6
30	Fluorine Tuning of Morphology, Energy Loss, and Carrier Dynamics in Perylenediimide Polymer Solar Cells. <i>ACS Energy Letters</i> , 2019 ,	20.1	6
29	Wirelike charge transport dynamics for DNA-lipid complexes in chloroform. <i>Journal of the American Chemical Society</i> , 2014 , 136, 15792-7	16.4	6
28	Auger recombination dynamics in clusters. <i>Chemical Physics</i> , 2008 , 350, 69-74	2.3	6
27	Host-Guest Complexation-Mediated Supramolecular Photon Upconversion. <i>Journal of the American Chemical Society</i> , 2020 , 142, 16600-16609	16.4	6
26	A Donor-Acceptor [2]Catenane for Visible Light Photocatalysis. <i>Journal of the American Chemical Society</i> , 2021 , 143, 8000-8010	16.4	6
25	Quantum coherence in ultrafast photo-driven charge separation. <i>Faraday Discussions</i> , 2019 , 216, 319-338	3.6	5
24	Charge Separation and Recombination Pathways in Diblock DNA Hairpins. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 1545-1553	3.4	5
23	Transient Two-Dimensional Electronic Spectroscopy: Coherent Dynamics at Arbitrary Times along the Reaction Coordinate. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 3509-3515	6.4	5
22	Symmetry-Breaking Charge Separation in Phenylene-Bridged Perylenediimide Dimers. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 7633-7643	2.8	5
21	Temperature Tuning of Coherent Mixing between States Driving Singlet Fission in a Spiro-Fused Terrylenediimide Dimer. <i>Journal of Physical Chemistry B</i> , 2021 ,	3.4	5
20	Metalated Porphyrin Stable Free Radicals: Exploration of Electron Spin Communication and Dynamics. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 6168-6176	2.8	4
19	Structure and Dynamics of Electron Injection and Charge Recombination in i-Motif DNA Conjugates. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 8058-8068	3.4	4
18	Charge and Spin Transport in an Organic Molecular Square. <i>Angewandte Chemie</i> , 2015 , 127, 12139-12145	3.6	4
17	Photoinduced electron transfer from zinc meso-tetraphenylporphyrin to a one-dimensional perylenediimide aggregate: Probing anion delocalization effects. <i>Journal of Porphyrins and Phthalocyanines</i> , 2020 , 24, 143-152	1.8	4
16	Dynamics of Charge Injection and Charge Recombination in DNA Mini-Hairpins. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 7042-7047	3.4	3

15	Direct Observation of the Photoreduction Products of Mn(NDI-bpy)(CO) ₃ CO ₂ Reduction Catalysts Using Femtosecond Transient IR Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 6416-6426	3.8	3
14	Auger recombination and excited state relaxation dynamics in Hg(n)(-) (n=9-20) anion clusters. <i>Journal of Chemical Physics</i> , 2009 , 130, 231103	3.9	3
13	Singlet fission in core-linked terrylenediimide dimers. <i>Journal of Chemical Physics</i> , 2020 , 153, 244306	3.9	3
12	Solvent independent symmetry-breaking charge separation in terrylenediimide guanine-quadruplex nanoparticles. <i>Journal of Chemical Physics</i> , 2020 , 153, 204302	3.9	3
11	Interaction of Photogenerated Spin Qubit Pairs with a Third Electron Spin in DNA Hairpins. <i>Journal of the American Chemical Society</i> , 2021 , 143, 4625-4632	16.4	3
10	Controlling the Dynamics of Three Electron Spin Qubits in a Donor-Acceptor-Radical Molecule Using Dielectric Environment Changes. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 2213-2218	6.4	3
9	Fluorescent excimers and exciplexes of the purine base derivative 8-phenylethynyl-guanine in DNA hairpins. <i>Faraday Discussions</i> , 2018 , 207, 217-232	3.6	2
8	Interplay between Intermolecular and Intramolecular Singlet Fission in Thin Films of a Covalently Linked Terrylenediimide Dimer. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6999-7009	3.8	2
7	Mechanistic Study of Electron Spin Polarization Transfer in Covalent Donor-Acceptor-Radical Systems. <i>Applied Magnetic Resonance</i> , 2021 , 45, 1001-1011	0.8	2
6	Charge Transfer and Spin Dynamics in a Zinc Porphyrin Donor Covalently Linked to One or Two Naphthalenediimide Acceptors. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 825-834	2.8	1
5	Excited-State Dynamics of Perylene-Based Chromophore Assemblies on Nanoporous Anodic Aluminum Oxide Membranes. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 14843-14853	3.8	0
4	Syntheses of three-dimensional catenanes under kinetic control.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2118573119	11.5	0
3	Twisted A-D-A Type Acceptors with Thermally-Activated Delayed Crystallization Behavior for Efficient Nonfullerene Organic Solar Cells. <i>Advanced Energy Materials</i> , 2021 , 11, 2103957	21.8	0
2	Electronic Interactions of Michler's Ketone with DNA Bases in Synthetic Hairpins. <i>Photochemistry and Photobiology</i> , 2015 , 91, 739-47	3.6	0
1	Hole transport in DNA hairpins via base mismatches and strand crossings: Efficiency and dynamics. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016 , 331, 160-164	4.7	0