

Guo-Yong Fu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Existence of an optimized stellarator with simple coils. Journal of Plasma Physics, 2022, 88, .	2.1	3
2	A neoclassically optimized compact stellarator with four planar coils. Physics of Plasmas, 2021, 28, .	1.9	3
3	Optimization of quasi-axisymmetric stellarators with varied elongation. Physics of Plasmas, 2020, 27, .	1.9	1
4	Reduction of asymmetric wall force in JET and ITER disruptions including runaway electrons. Physics of Plasmas, 2020, 27, 022508.	1.9	9
5	Observation of a nonlinear phenomenon of the density fluctuations on zheda plasma experiment device (ZPED). AIP Advances, 2019, 9, .	1.3	2
6	Linear properties of global energetic particle induced geodesic acoustic mode with bump-on-tail distribution in tokamak plasmas. Physics of Plasmas, 2019, 26, .	1.9	6
7	Zonal structure effect on the nonlinear saturation of reverse shear Alfvén eigenmodes. Physics of Plasmas, 2018, 25, .	1.9	10
8	Hybrid simulations of fishbone instabilities and Alfvén eigenmodes in DIII-D tokamak. Physics of Plasmas, 2018, 25, 122504.	1.9	20
9	Role of Kinetic Instability in Runaway-Electron Avalanches and Elevated Critical Electric Fields. Physical Review Letters, 2018, 120, 265001.	7.8	45
10	Energetic particle modes of $q \approx 1$ high-order harmonics in tokamak plasmas with monotonic weak magnetic shear. Physics of Plasmas, 2017, 24, .	1.9	14
11	High frequency fishbone driven by passing energetic ions in tokamak plasmas. Nuclear Fusion, 2017, 57, 056013.	3.5	7
12	Numerical study on wave-induced beam ion prompt losses in DIII-D tokamak. Physics of Plasmas, 2017, 24, .	1.9	1
13	Nonlinear fishbone dynamics in spherical tokamaks. Nuclear Fusion, 2017, 57, 016034.	3.5	22
14	Local wave particle resonant interaction causing energetic particle prompt loss in DIII-D plasmas. Nuclear Fusion, 2015, 55, 122002.	3.5	9
15	Influence of resistive internal kink on runaway current profile. Nuclear Fusion, 2015, 55, 022001.	3.5	18
16	Hybrid simulation of toroidal Alfvén eigenmode on the National Spherical Torus Experiment. Physics of Plasmas, 2015, 22, 042509.	1.9	13
17	Nonlinear hybrid simulation of internal kink with beam ion effects in DIII-D. Physics of Plasmas, 2015, 22, .	1.9	23
18	An overview of recent physics results from NSTX. Nuclear Fusion, 2015, 55, 104002.	3.5	21

#	ARTICLE	IF	CITATIONS
19	Ions lost on their first orbit can impact Alfvén eigenmode stability. <i>Physics of Plasmas</i> , 2015, 22, 082507.	1.9	3
20	Nonlinear frequency chirping of toroidal Alfvén eigenmodes in tokamak plasmas. <i>Nuclear Fusion</i> , 2014, 54, 123020.	3.5	16
21	Fast wave heating in the NSTX-Upgrade device. , 2014, , .		12
22	M3D-K simulations of sawteeth and energetic particle transport in tokamak plasmas. <i>Physics of Plasmas</i> , 2014, 21, .	1.9	25
23	Optimization by marker removal for particle simulations. <i>Computer Physics Communications</i> , 2014, 185, 96-105.	7.5	6
24	Effects of pressure gradient on global Alfvén eigenmodes in reversed field pinch. <i>Physics of Plasmas</i> , 2014, 21, 022513.	1.9	3
25	A model for falling-tone chorus. <i>Geophysical Research Letters</i> , 2014, 41, 1838-1845.	4.0	22
26	A description of the full-particle-orbit-following SPIRAL code for simulating fast-ion experiments in tokamaks. <i>Plasma Physics and Controlled Fusion</i> , 2013, 55, 025013.	2.1	64
27	Overview of physics results from the conclusive operation of the National Spherical Torus Experiment. <i>Nuclear Fusion</i> , 2013, 53, 104007.	3.5	53
28	Nonlinear dynamics of toroidal Alfvén eigenmodes driven by energetic particles. <i>Physics of Plasmas</i> , 2013, 20, 072508.	1.9	13
29	Dynamic evolutions of multiple toroidal Alfvén eigenmodes with energetic particles. <i>Physics of Plasmas</i> , 2013, 20, 122508.	1.9	5
30	Linear stability and nonlinear dynamics of the fishbone mode in spherical tokamaks. <i>Physics of Plasmas</i> , 2013, 20, 102506.	1.9	41
31	Simulation of non-resonant internal kink mode with toroidal rotation in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	29
32	Energetic particle instabilities in fusion plasmas. <i>Nuclear Fusion</i> , 2013, 53, 104022.	3.5	79
33	Hybrid simulation of energetic particle effects on tearing modes in tokamak plasmas. <i>Physics of Plasmas</i> , 2012, 19, 072506.	1.9	57
34	Study of chirping toroidicity-induced Alfvén eigenmodes in the National Spherical Torus Experiment. <i>Nuclear Fusion</i> , 2012, 52, 094001.	3.5	33
35	On nonlinear self-interaction of geodesic acoustic mode driven by energetic particles. <i>Journal of Plasma Physics</i> , 2011, 77, 457-467.	2.1	18
36	Overview of physics results from NSTX. <i>Nuclear Fusion</i> , 2011, 51, 094011.	3.5	10

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37	Onset and saturation of a non-resonant internal mode in NSTX and implications for AT modes in ITER. Nuclear Fusion, 2011, 51, 063027.	3.5	29
38	Study of fishbone instabilities induced by energetic particles in tokamak plasmas. Nuclear Fusion, 2011, 51, 113012.	3.5	7
39	Nonlinear simulation of toroidal Alfvén eigenmode with microturbulence-induced radial diffusion. Physics of Plasmas, 2011, 18, 055902.	1.9	24
40	Linear gyrokinetic simulation of high-n toroidal Alfvén eigenmodes in a burning plasma. Physics of Plasmas, 2010, 17, 102504.	1.9	30
41	Second stable regime of internal kink modes excited by barely passing energetic ions in tokamak plasmas. Physics of Plasmas, 2010, 17, 082512.	1.9	7
42	Nonlinear simulation of toroidal Alfvén eigenmode with source and sink. Physics of Plasmas, 2010, 17, 042309.	1.9	48
43	Beta-induced Alfvén-acoustic eigenmodes in National Spherical Torus Experiment and DIII-D driven by beam ions. Physics of Plasmas, 2009, 16, .	1.9	75
44	Kinetic damping of Alfvén eigenmodes in general tokamak geometry. Physics of Plasmas, 2009, 16, .	1.9	20
45	Gyrokinetic \hat{f} particle simulations of toroidicity-induced Alfvén eigenmode. Physics of Plasmas, 2009, 16, 102101.	1.9	29
46	Overview of results from the National Spherical Torus Experiment (NSTX). Nuclear Fusion, 2009, 49, 104016.	3.5	41
47	Advances in simulation of wave interactions with extended MHD phenomena. Journal of Physics: Conference Series, 2009, 180, 012054.	0.4	2
48	Reversed shear Alfvén eigenmodes in the frequency range of the triangularity induced gap on JET. Plasma Physics and Controlled Fusion, 2008, 50, 082001.	2.1	8
49	Excitation of Alfvén eigenmodes by low energy beam ions in the DIII-D and JET tokamaks. Physics of Plasmas, 2008, 15, 056107.	1.9	33
50	Intense Geodesic Acousticlike Modes Driven by Suprathermal Ions in a Tokamak Plasma. Physical Review Letters, 2008, 101, 185001.	7.8	132
51	Energetic-Particle-Induced Geodesic Acoustic Mode. Physical Review Letters, 2008, 101, 185002.	7.8	162
52	Ideal Magnetohydrodynamic Stability of the NCSX. Fusion Science and Technology, 2007, 51, 218-231.	1.1	11
53	Overview of recent physics results from the National Spherical Torus Experiment (NSTX). Nuclear Fusion, 2007, 47, S645-S657.	3.5	40
54	Simulation of Fusion Plasmas: Current Status and Future Direction. Plasma Science and Technology, 2007, 9, 312-387.	1.5	29

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55	Effects of pressure gradient on existence of Alfvén cascade modes in reversed shear tokamak plasmas. <i>Physics of Plasmas</i> , 2006, 13, 052502.	1.9	72
56	Collective fast ion instability-induced losses in National Spherical Tokamak Experiment. <i>Physics of Plasmas</i> , 2006, 13, 056109.	1.9	89
57	Reversed shear Alfvén eigenmodes associated with the ellipticity and triangularity Alfvén gaps. <i>Plasma Physics and Controlled Fusion</i> , 2006, 48, 1285-1295.	2.1	16
58	Global hybrid simulations of energetic particle effects on the n=1 mode in tokamaks: Internal kink and fishbone instability. <i>Physics of Plasmas</i> , 2006, 13, 052517.	1.9	117
59	Interpretation of core localized Alfvén eigenmodes in DIII-D and Joint European Torus reversed magnetic shear plasmas. <i>Physics of Plasmas</i> , 2006, 13, 056104.	1.9	31
60	Kinetic damping of toroidal Alfvén eigenmodes. <i>Physics of Plasmas</i> , 2005, 12, 082505.	1.9	35
61	Progress towards high performance plasmas in the National Spherical Torus Experiment (NSTX). <i>Nuclear Fusion</i> , 2005, 45, S168-S180.	3.5	60
62	Simulation of two fluid and energetic particle effects in stellarators. <i>Nuclear Fusion</i> , 2004, 44, 1008-1014.	3.5	14
63	Second ballooning stability in high- \hat{q}^2 , compact stellarators. <i>Physics of Plasmas</i> , 2004, 11, 2453-2458.	1.9	2
64	Wave driven fast ion loss in the National Spherical Torus Experiment. <i>Physics of Plasmas</i> , 2003, 10, 2852-2862.	1.9	58
65	Overview of JET results. <i>Nuclear Fusion</i> , 2003, 43, 1540-1554.	3.5	38
66	Nonlinear simulation studies of tokamaks and STs. <i>Nuclear Fusion</i> , 2003, 43, 483-489.	3.5	30
67	Constructing integrable high-pressure full-current free-boundary stellarator magnetohydrodynamic equilibrium solutions. <i>Nuclear Fusion</i> , 2003, 43, 1040-1046.	3.5	9
68	Study of thermonuclear Alfvén instabilities in next step burning plasma proposals. <i>Nuclear Fusion</i> , 2003, 43, 594-605.	3.5	60
69	Experimental test of damping models for n=1 toroidal Alfvén eigenmodes in JET. <i>Nuclear Fusion</i> , 2003, 43, 479-482.	3.5	25
70	High- \hat{q}^2 Equilibria of Drift-Optimized Compact Stellarators. <i>Physical Review Letters</i> , 2002, 89, 125003.	7.8	13
71	Bootstrap current destabilization of ideal MHD modes in three-dimensional reactor configurations. <i>Plasma Physics and Controlled Fusion</i> , 2002, 44, B357-B373.	2.1	8
72	Physics issues of compact drift optimized stellarators. <i>Nuclear Fusion</i> , 2001, 41, 711-716.	3.5	86

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73	Alfvén eigenmodes driven by Alfvénic beam ions in JT-60U. Nuclear Fusion, 2001, 41, 603-612.	3.5	93
74	Physics of the compact advanced stellarator NCSX. Plasma Physics and Controlled Fusion, 2001, 43, A237-A249.	2.1	161
75	The toroidicity-induced Alfvén eigenmode structure in DIII-D: Implications of soft x-ray and beam-ion loss data. Physics of Plasmas, 2001, 8, 3391-3401.	1.9	28
76	Recent advances in the design of quasiaxisymmetric stellarator plasma configurations. Physics of Plasmas, 2001, 8, 2083-2094.	1.9	46
77	Fast particle experiments in JT-60U. Nuclear Fusion, 2000, 40, 1383-1396.	3.5	47
78	Fast particle destabilization of toroidicity-induced Alfvén eigenmodes in the National Spherical Torus Experiment. Physics of Plasmas, 2000, 7, 1433-1436.	1.9	8
79	Observation of modes at frequencies near the second Alfvén gap in the Tokamak Fusion Test Reactor. Physics of Plasmas, 2000, 7, 4121.	1.9	3
80	Physics issues in the design of high-beta, low-aspect-ratio stellarator experiments. Physics of Plasmas, 2000, 7, 1911-1918.	1.9	55
81	Robustness and flexibility in compact quasiaxial stellarators: Global ideal magnetohydrodynamic stability and energetic particle transport. Physics of Plasmas, 2000, 7, 2508-2516.	1.9	5
82	Vertical stability in a current-carrying stellarator. Physics of Plasmas, 2000, 7, 1079-1080.	1.9	10
83	Magnetohydrodynamics stability of compact stellarators. Physics of Plasmas, 2000, 7, 1809-1815.	1.9	13
84	Observation of modes at frequencies near the second Alfvén gap in TFTR. , 1999, , .		0
85	Physics design of a high-beta quasi-axisymmetric stellarator. Plasma Physics and Controlled Fusion, 1999, 41, B273-B283.	2.1	56
86	Energetic particle transport and alpha driven instabilities in advanced confinement DT plasmas on TFTR. Nuclear Fusion, 1999, 39, 1309-1319.	3.5	11
87	Destabilization of ellipticity-induced Alfvén eigenmodes during ICRF heating and stabilization by negative-ion-based neutral beam injection in JT-60U. Plasma Physics and Controlled Fusion, 1999, 41, 1167-1177.	2.1	5
88	3-D MHD simulations of pellet injection and disruptions in tokamak plasmas. Nuclear Fusion, 1999, 39, 2069-2076.	3.5	5
89	Physics of compact stellarators. Physics of Plasmas, 1999, 6, 1858-1864.	1.9	32
90	Numerical study of the nonlinear evolution of toroidicity-induced Alfvén eigenmodes. Physics of Plasmas, 1999, 6, 226-237.	1.9	25

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91	Frequency Chirping of Core-Localized Toroidicity-Induced Alfvén Eigenmodes and their Coupling to Global Alfvén Eigenmodes. <i>Physical Review Letters</i> , 1999, 83, 2961-2964.	7.8	24
92	Plasma simulation studies using multilevel physics models. <i>Physics of Plasmas</i> , 1999, 6, 1796-1803.	1.9	250
93	Fast particle finite orbit width and Larmor radius effects on low-n toroidicity induced Alfvén eigenmode excitation. <i>Physics of Plasmas</i> , 1999, 6, 2802-2807.	1.9	99
94	Toroidal Alfvén eigenmodes driven with ICRF accelerated protons in JT-60U negative shear discharges. <i>Nuclear Fusion</i> , 1998, 38, 1215-1223.	3.5	48
95	Alfvén eigenmode and energetic particle research in JT-60U. <i>Nuclear Fusion</i> , 1998, 38, 1303-1314.	3.5	135
96	Fusion plasma experiments on TFTR: A 20 year retrospective. <i>Physics of Plasmas</i> , 1998, 5, 1577-1589.	1.9	91
97	Noncircular Triangularity and Ellipticity-Induced Alfvén Eigenmodes Observed in JT-60U. <i>Physical Review Letters</i> , 1998, 80, 2594-2597.	7.8	47
98	Alpha particle-driven toroidal Alfvén eigenmodes in Tokamak Fusion Test Reactor deuterium-tritium plasmas: Theory and experiments. <i>Physics of Plasmas</i> , 1998, 5, 4284-4291.	1.9	20
99	Toroidal Alfvén eigenmodes in TFTR deuterium-tritium plasmas. <i>Physics of Plasmas</i> , 1998, 5, 1703-1711.	1.9	33
100	TFTR DT experiments. <i>Plasma Physics and Controlled Fusion</i> , 1997, 39, B103-B114.	2.1	35
101	Alpha-particle physics in the tokamak fusion test reactor DT experiment. <i>Plasma Physics and Controlled Fusion</i> , 1997, 39, A275-A283.	2.1	23
102	Effect of shear in toroidal rotation on toroidicity induced Alfvén eigenmodes. <i>Nuclear Fusion</i> , 1997, 37, 1559-1568.	3.5	17
103	Physics issues of high bootstrap current tokamaks. <i>Plasma Physics and Controlled Fusion</i> , 1997, 39, A371-A380.	2.1	15
104	Deuterium-tritium plasmas in novel regimes in the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1997, 4, 1714-1724.	1.9	27
105	Alpha-driven magnetohydrodynamics (MHD) and MHD-induced alpha loss in the Tokamak Fusion Test Reactor. <i>Physics of Plasmas</i> , 1997, 4, 1610-1616.	1.9	16
106	Alpha-Particle-Driven Toroidal Alfvén Eigenmodes in the Tokamak Fusion Test Reactor. <i>Physical Review Letters</i> , 1997, 78, 2976-2979.	7.8	118
107	Correlation between excitation of Alfvén modes and degradation of ICRF heating efficiency in TFTR. , 1997, , .		0
108	Plasma wall interaction and tritium retention in TFTR. <i>Journal of Nuclear Materials</i> , 1997, 241-243, 214-226.	2.7	39

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109	Alpha particle losses from Tokamak Fusion Test Reactor deuterium-tritium plasmas. Physics of Plasmas, 1996, 3, 1875-1880.	1.9	25
110	Analysis of alpha particle-driven toroidal Alfvén eigenmodes in Tokamak Fusion Test Reactor deuterium-tritium experiments. Physics of Plasmas, 1996, 3, 4036-4045.	1.9	75
111	Evidence of coupling between toroidal Alfvén eigenmodes and kinetic Alfvén waves. , 1996, , .		0
112	Evidence of coupling between toroidal Alfvén eigenmodes and kinetic Alfvén waves. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 224, 99-103.	2.1	7
113	First Evidence of Collective Alpha Particle Effect on Toroidal Alfvén Eigenmodes in the TFTR D-T Experiment. Physical Review Letters, 1996, 76, 2286-2289.	7.8	33
114	Stability of the toroidicity induced Alfvén eigenmode in JT-60U ICRF experiments. Nuclear Fusion, 1996, 36, 1759-1762.	3.5	5
115	Search for alpha driven TAEs at lowered ion temperature in TFTR DT discharges. Nuclear Fusion, 1996, 36, 987-1008.	3.5	12
116	Recent D-T results on TFTR. Plasma Physics and Controlled Fusion, 1995, 37, A69-A85.	2.1	22
117	Plasma-surface interactions in TFTR DT experiments. Journal of Nuclear Materials, 1995, 220-222, 62-72.	2.7	18
118	Nonlinear Hybrid Simulation of the Toroidicity-Induced Alfvén Eigenmode. Physical Review Letters, 1995, 74, 1594-1596.	7.8	62
119	Stability Analysis of Toroidicity-Induced Alfvén Eigenmodes in TFTR Deuterium-Tritium Experiments. Physical Review Letters, 1995, 75, 2336-2339.	7.8	54
120	Non-linear analysis of the toroidicity induced Alfvén eigenmode. Nuclear Fusion, 1995, 35, 1707-1712.	3.5	14
121	Observation of new branch of toroidal Alfvén eigenmodes in TFTR. Nuclear Fusion, 1995, 35, 1457-1461.	3.5	18
122	Experimental study of toroidicity induced Alfvén eigenmode (TAE) stability at high $q(0)$. Nuclear Fusion, 1995, 35, 1463-1468.	3.5	15
123	Alfvén frequency modes at the edge of TFTR plasmas. Nuclear Fusion, 1995, 35, 1469-1479.	3.5	40
124	Existence of core localized toroidicity-induced Alfvén eigenmode. Physics of Plasmas, 1995, 2, 1029-1031.	1.9	81
125	Review of deuterium-tritium results from the Tokamak Fusion Test Reactor. Physics of Plasmas, 1995, 2, 2176-2188.	1.9	89
126	Toroidal Alfvén eigenmode-induced ripple trapping. Physics of Plasmas, 1995, 2, 2871-2873.	1.9	87

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127	Overview of DT results from TFTR. Nuclear Fusion, 1995, 35, 1429-1436.	3.5	41
128	Energetic particle effects on toroidal Alfvén eigenmodes. AIP Conference Proceedings, 1994, , .	0.4	0
129	Expansion of parameter space for toroidal Alfvén eigenmode experiments in TFTR. Plasma Physics and Controlled Fusion, 1994, 36, 879-895.	2.1	45
130	Preparations for deuterium-tritium experiments on the Tokamak Fusion Test Reactor*. Physics of Plasmas, 1994, 1, 1560-1567.	1.9	7
131	Fusion power production from TFTR plasmas fueled with deuterium and tritium. Physical Review Letters, 1994, 72, 3526-3529.	7.8	130
132	Confinement and heating of a deuterium-tritium plasma. Physical Review Letters, 1994, 72, 3530-3533.	7.8	90
133	Stability of the toroidicity-induced Alfvén eigenmode in axisymmetric toroidal equilibria. Physics of Fluids B, 1993, 5, 4040-4050.	1.7	67
134	Ion cyclotron range of frequency heating on the Tokamak Fusion Test Reactor*. Physics of Fluids B, 1993, 5, 2437-2444.	1.7	8
135	Geometrical and profile effects on toroidicity and ellipticity induced Alfvén eigenmodes. Nuclear Fusion, 1992, 32, 1695-1713.	3.5	29
136	Fully three-dimensional ideal magnetohydrodynamic stability analysis of low-n modes and Mercier modes in stellarators. Physics of Fluids B, 1992, 4, 1401-1411.	1.7	24
137	Excitation of high-toroidicity-induced shear Alfvén eigenmodes by energetic particles and fusion alpha particles in tokamaks. Physics of Fluids B, 1992, 4, 3722-3734.	1.7	125
138	DESIGN AND ANALYSIS OF THE IGNITEX APPROACH FOR A LABORATORY FUSION EXPERIMENT. , 1991, , 528-532.		0
139	Analytic boundary for resistive ballooning stability in the tokamak second stable regime. Physics of Fluids B, 1990, 2, 2623-2635.	1.7	6
140	Thermonuclear Instability of Global-Type Shear Alfvén Modes. Fusion Science and Technology, 1990, 18, 461-474.	0.6	37
141	Preliminary Analysis of Alpha-Particle Effects in the Fusion Ignition Experiment IGNITEX. Fusion Science and Technology, 1990, 18, 535-555.	0.6	2
142	Theory of a high-toroidicity-induced shear Alfvén eigenmode in tokamaks. Physics of Fluids B, 1990, 2, 985-993.	1.7	68
143	Excitation of the toroidicity-induced shear Alfvén eigenmode by fusion alpha particles in an ignited tokamak. Physics of Fluids B, 1989, 1, 1949-1952.	1.7	328
144	Dynamical transition to second stability in auxiliary heated tokamaks. Nuclear Fusion, 1989, 29, 1939-1952.	3.5	2

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145	Stability of the global Alfvén eigenmode in the presence of fusion alpha particles in an ignited tokamak plasma. <i>Physics of Fluids B</i> , 1989, 1, 2404-2413.	1.7	47
146	Confinement of a self-stabilized tokamak under average magnetic well conditions. <i>Physics of Fluids</i> , 1988, 31, 213-215.	1.4	1
147	Effects of ballooning instability on tokamak confinement. <i>Journal of Plasma Physics</i> , 1988, 39, 11-25.	2.1	1
148	Alpha-Particle Effects on Magnetohydrodynamic Stability in the Engineering Test Reactor Tokamak. <i>Fusion Science and Technology</i> , 1988, 13, 423-427.	0.6	2
149	Linear hybrid simulations of low frequency fishbone instability driven by energetic passing particles in tokamak plasmas. <i>Plasma Science and Technology</i> , 0, , .	1.5	4