Alon E Faraggi

List of Publications by Year
in descending order

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139 papers	4,766 citations	71102 41 h-index	110387 64 g-index
139 all docs	139 docs citations	139 times ranked	1621 citing authors

#	Article	IF	Citations
1	Vacuum Structure and Spectrum ofN=2SupersymmetricSU(n)Gauge Theory. Physical Review Letters, 1995, 74, 3931-3934.	7.8	344
2	A new standard-like model in the four dimensional free fermionic string formulation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 278, 131-139.	4.1	229
3	A standard-like model in the four-dimensional free fermionic string formulation. Nuclear Physics B, 1990, 335, 347-362.	2.5	216
4	Construction of realistic standard-like models in the free fermionic superstring formulation. Nuclear Physics B, 1992, 387, 239-262.	2.5	177
5	Hierarchical top-bottom mass relation in a superstring derived standard-like model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 274, 47-52.	4.1	109
6	Z2Ã—Z2 orbifold compactification as the origin of realistic free fermionic models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 326, 62-68.	4.1	104
7	Gauge coupling unification in realistic free-fermionic string models. Nuclear Physics B, 1995, 457, 409-483.	2.5	93
8	Aspects of non-renormalizable terms in a superstring derived standard-like model. Nuclear Physics B, 1993, 403, 101-121.	2.5	90
9	Phenomenological issues in TeV scale gravity with light neutrino masses. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 458, 237-244.	4.1	84
10	Chiral family classification of fermionic <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.els. Physics Let.	4.1	84
11	Self-interacting dark matter from the hidden heterotic-string sector. Astroparticle Physics, 2002, 16, 451-461.	4.3	77
12	Generation mass hierarchy in superstring derived models. Nuclear Physics B, 1993, 407, 57-72.	2.5	76
13	Naturalness of three generations in free fermionicZ2náŠ—Z4string models. Physical Review D, 1993, 48, 3288-3296.	4.7	76
14	Left-right symmetric heterotic-string derived models. Physical Review D, 2001, 63, .	4.7	75
15	Stable superstring relics. Nuclear Physics B, 1996, 477, 65-104.	2.5	70
16	THE EQUIVALENCE POSTULATE OF QUANTUM MECHANICS. International Journal of Modern Physics A, 2000, 15, 1869-2017.	1.5	69
17	Fractional charges in a superstring-derived standardlike model. Physical Review D, 1992, 46, 3204-3207.	4.7	66
18	Proton stability in superstring derived models. Nuclear Physics B, 1994, 428, 111-125.	2.5	64

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19	Making Ends Meet: String Unification and Low-Energy Data. Physical Review Letters, 1995, 75, 2646-2649.	7.8	64
20	String unification, higher-level gauge symmetries, and exotic hypercharge normalizations. Nuclear Physics B, 1996, 467, 44-99.	2.5	59
21	Exophobic quasi-realistic heterotic string vacua. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 683, 306-313.	4.1	59
22	Spinor-vector duality in fermionic heterotic orbifold models. Nuclear Physics B, 2007, 774, 208-231.	2.5	58
23	ON THE ANOMALOUS U(1) IN FREE FERMIONIC SUPERSTRING MODELS. International Journal of Modern Physics A, 1999, 14, 2335-2356.	1.5	55
24	Stable superstring relics and ultrahigh energy cosmic rays. Nuclear Physics B, 2001, 614, 233-253.	2.5	55
25	Cabibbo-Kobayashi-Maskawa mixing in superstring derived standard-like models. Nuclear Physics B, 1994, 416, 63-86.	2.5	54
26	Sparticle spectroscopy. Physical Review D, 1992, 45, 3272-3275.	4.7	52
27	Classification of heterotic Patiâ€“Salam models. Nuclear Physics B, 2011, 844, 365-396.	2.5	51
28	Equivalence principle, higher-dimensional MÃ¶bius group and the hidden antisymmetric tensor of quantum mechanics. Classical and Quantum Gravity, 2000, 17, 3965-4005.	4.0	50
29	Flat directions in left-right symmetric string derived models. Physical Review D, 2002, 65, .	4.7	50
30	On the number of chiral generations in Z2Ã—Z2 orbifolds. Nuclear Physics B, 2004, 694, 187-205.	2.5	50
31	A SUPERSTRING Z' AT O(1 TeV)?. Modern Physics Letters A, 1991, 06, 61-68.	1.2	49
32	Quantum mechanics from an equivalence principle. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 450, 34-40.	4.1	49
33	Custodial nonabelian gauge symmetries in realistic superstring derived models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 339, 223-231.	4.1	47
34	Bbb Z2Ã— Bbb Z2heterotic orbifold models of non factorisable six dimensional toroidal manifolds. Journal of High Energy Physics, 2006, 2006, 057-057.	4.7	46
35	M-theory model-building and proton stability. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 419, 123-131.	4.1	45
36	Duality ofxandÏ^and a Statistical Interpretation of Space in Quantum Mechanics. Physical Review Letters, 1997, 78, 163-166.	7.8	43

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37	A MINIMAL SUPERSTRING STANDARD MODEL I: FLAT DIRECTIONS. International Journal of Modern Physics A, 2001, 16, 425-482.	1.5	43
38	NAHE-based string models with SU(4)Ã—SU(2)Ã—U(1) SO(10) subgroup. Nuclear Physics B, 2003, 672, 64-86.	2.5	43
39	Spinorâ€“vector duality in heterotic SUSY vacua. Nuclear Physics B, 2009, 812, 103-127.	2.5	43
40	Conformal aspects of Spinorâ€“Vector duality. Nuclear Physics B, 2011, 848, 332-371.	2.5	41
41	Top quark mass in exophobic Patiâ€“Salam heterotic string model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 702, 81-89.	4.1	41
42	Calculating fermion masses in superstring derived standard-like models. Nuclear Physics B, 1997, 487, 55-92.	2.5	40
43	Partition functions of NAHE-based free fermionic string models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 544, 207-214.	4.1	40
44	Quantum transformations. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 249, 180-190.	2.1	38
45	ON ELEVATING FREE-FERMION Z2Ã—Z2 ORBIFOLDS MODELS TO COMPACTIFICATIONS OF F THEORY. International Journal of Modern Physics A, 2000, 15, 1345-1362.	1.5	38
46	TOWARD CLASSIFICATION OF THE REALISTIC FREE-FERMIONIC SUPERSTRING MODELS. International Journal of Modern Physics A, 1999, 14, 1663-1702.	1.5	37
47	Doubletâ€“triplet splitting in realistic heterotic string derived models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 520, 337-344.	4.1	37
48	Spinor-vector duality in heterotic string vacua. Nuclear Physics B, 2008, 799, 19-33.	2.5	37
49	Neutrino masses in superstring derived standard-like models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 307, 311-317.	4.1	36
50	Light threshold effects in supersymmetric Grand Unified Theories. Nuclear Physics B, 1994, 422, 3-36.	2.5	35
51	Yukawa couplings in superstring-derived standardlike models. Physical Review D, 1993, 47, 5021-5028.	4.7	34
52	NON-ABELIAN FLAT DIRECTIONS IN A MINIMAL SUPERSTRING STANDARD MODEL. Modern Physics Letters A, 2000, 15, 1191-1202.	1.2	33
53	Classification of flipped <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:mi mathvariant="italic">SU</mml:mi></mml:mrow><mml:mo stretchy="false">(</mml:mo><mml:mn>5</mml:mn><mml:mo stretchy="false">)</mml:mo></mml:math> heterotic-string vacua. Nuclear Physics B, 2014, 886, 202-242.	2.5	33
54	String derived exophobic GUTs. Nuclear Physics B, 2013, 868, 1-15.	2.5	32

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55	Non-tachyonic semi-realistic non-supersymmetric heterotic-string vacua. European Physical Journal C, 2016, 76, 1.	3.9	31
56	Cabibbo mixing in superstring derived standard-like models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 307, 305-310.	4.1	30
57	The equivalence principle of quantum mechanics: uniqueness theorem. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 437, 369-380.	4.1	30
58	Spinor-Vector duality in heterotic string orbifolds. Journal of High Energy Physics, 2010, 2010, 1.	4.7	30
59	Classification of standard-like heterotic-string vacua. Nuclear Physics B, 2018, 927, 1-34.	2.5	30
60	Interpolations among NAHE-based supersymmetric and nonsupersymmetric string vacua. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 683, 314-320.	4.1	28
61	Large volume susy breaking with a solution to the decompactification problem. Nuclear Physics B, 2015, 899, 328-374.	2.5	28
62	A family-universal anomalous U(1) in string models as the origin of supersymmetry breaking and squark degeneracy. Nuclear Physics B, 1998, 526, 21-52.	2.5	27
63	Searching for extra<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Z</mml:mi><mml:mo>â€²</mml:mo></mml:msup></mml:math>from strings and other models at the CERN LHC with leptoproduction. Physical Review D, 2008, 78, .	4.7	27
64	Equivalence principle: tunnelling, quantized spectra and trajectories from the quantum HJ equation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 445, 357-365.	4.1	26
65	Probing the desert with ultra-energetic neutrinos from the sun and the earth. Astroparticle Physics, 2000, 13, 31-43.	4.3	26
66	String inspired neutrino mass textures in light of KamLAND and WMAP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 581, 99-110.	4.1	26
67	Top quark mass prediction in superstring derived standard-like models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 377, 43-47.	4.1	25
68	T-branes and Yukawa couplings. Journal of High Energy Physics, 2011, 2011, 1.	4.7	25
69	Extra $$Z^{prime }$$ Z â€² s and $$W^{prime }$$ W â€² s in heterotic-string derived models. European Physical Journal C, 2015, 75, 1.	3.9	25
70	Ï„ neutrino mass as possible evidence for a superstring inspired standard-like model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 245, 435-440.	4.1	24
71	Proton stability and superstring Zâ€². Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 499, 147-157.	4.1	24
72	The 750 GeV di-photon LHC excess and extra $$Z^prime $$ Z â€² s in heterotic-string derived models. European Physical Journal C, 2016, 76, 1.	3.9	24

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73	Equivalence principle, Planck length and quantum Hamiltonâ€“Jacobi equation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 445, 77-81.	4.1	21
74	Moduli fixing in realistic string vacua. Nuclear Physics B, 2005, 728, 83-108.	2.5	20
75	Quasirealistic heterotic-string models with vanishing one-loop cosmological constant and perturbatively broken supersymmetry?. Physical Review D, 2008, 78, .	4.7	19
76	A lightZâ€²heterotic-string derived model. Nuclear Physics B, 2015, 895, 233-247.	2.5	19
77	Leptophobic Zâ€² from superstring derived models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 388, 524-531.	4.1	18
78	Local discrete symmetries from superstring derived models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 398, 88-94.	4.1	18
79	String inspired Zâ€² model with stable proton and light neutrino masses. Nuclear Physics B, 2002, 624, 163-180.	2.5	18
80	HIERARCHICAL SUPERSYMMETRY BREAKING IN SUPERSTRING-DERIVED STANDARD-LIKE MODELS. International Journal of Modern Physics A, 1996, 11, 2357-2378.	1.5	16
81	Towards the classification of tachyon-free models from tachyonic ten-dimensional heterotic string vacua. Nuclear Physics B, 2020, 961, 115231.	2.5	16
82	Nonperturbative flipped SU(5) vacua in heterotic M-theory. Nuclear Physics B, 2002, 641, 111-130.	2.5	15
83	Spectral flow as a map between <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x.	4.1	15
84	Classification of leftâ€“right symmetric heterotic string vacua. Nuclear Physics B, 2018, 936, 472-500.	2.5	15
85	A low energy dynamical SUSY breaking scenario motivated from superstring derived unification. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 387, 775-784.	4.1	14
86	New dark matter candidates motivated from superstring derived unification. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 397, 76-80.	4.1	14
87	Supersymmetric QCD and high energy cosmic rays: Fragmentation functions of supersymmetric QCD. Physical Review D, 2002, 65, .	4.7	14
88	Heterotic free fermionic and symmetric toroidal orbifold models. Journal of High Energy Physics, 2016, 2016, 1-51.	4.7	14
89	TOWARDS STRING PREDICTIONS. International Journal of Modern Physics A, 2001, 16, 3565-3581.	1.5	13
90	Proton stability and lightZâ€²inspired by string derived models. Physical Review D, 2011, 84, .	4.7	13

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91	String phenomenology from a worldsheet perspective. European Physical Journal C, 2019, 79, 1.	3.9	13
92	Flavor violations in no-scale flipped SU(5)Ã—U(1). Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 221, 337-342.	4.1	12
93	Proton stability, gauge coupling unification, and a lightZâ€²in heterotic-string models. Physical Review D, 2013, 88, .	4.7	12
94	LightZâ€²in heterotic string standardlike models. Physical Review D, 2014, 89, .	4.7	12
95	Classification of nonsupersymmetric Pati-Salam heterotic string models. Physical Review D, 2021, 104, .	4.7	12
96	Family universal anomalous U(1) in realistic superstring derived models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 426, 315-322.	4.1	11
97	Classification ofSU(4)Ã—SU(2)Ã—U(1)heterotic-string models. Physical Review D, 2015, 91, .	4.7	11
98	Stable three generation standard-like model from a tachyonic ten dimensional heterotic-string vacuum. European Physical Journal C, 2020, 80, 1.	3.9	11
99	Doublet-triplet splitting in fertile left-right symmetric heterotic string vacua. Nuclear Physics B, 2020, 953, 114969.	2.5	10
100	Meeting the constraint of neutrinoâ€”Higgsino mixing in gravity unified theories. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 400, 314-322.	4.1	9
101	D-term spectroscopy in realistic heterotic-string models. Physical Review D, 2000, 62, .	4.7	9
102	LHC di-photon excess and gauge coupling unification in extra $$Z^prime $$ Z â€² heterotic-string derived models. European Physical Journal C, 2016, 76, 1.	3.9	9
103	Light fermion masses in superstring derived standard-like models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 329, 208-216.	4.1	8
104	R-parity violation in superstring derived models. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 398, 95-99.	4.1	8
105	CP violation in realistic string models with family universal anomalous U(1). Nuclear Physics B, 2002, 641, 93-110.	2.5	8
106	Wilsonian dark matter in string derived Zâ€² model. Physical Review D, 2017, 96, .	4.7	8
107	Type <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"><mml:mover accent="true"><mml:mrow><mml:mn>0</mml:mn></mml:mrow><mml:mrow><mml:mo stretchy="false">Â¯</mml:mo></mml:mrow></mml:mover></mml:math> heterotic string orbifolds. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136080.	4.1	8
108	The geometrical origin of dark energy. European Physical Journal C, 2020, 80, 1.	3.9	8

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109	Superheavy spectrum and supersymmetric grand unification. Physical Review D, 1993, 47, 5018-5020.	4.7	7
110	Yukawa couplings in SO(10) heterotic M-theory vacua. Nuclear Physics B, 2003, 659, 224-242.	2.5	7
111	Energy quantisation and time parameterisation. European Physical Journal C, 2014, 74, 1.	3.9	7
112	Leptophobic <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	4.1	5
113	Superluminality and the equivalence postulate of quantum mechanics. European Physical Journal C, 2012, 72, 1.	3.9	5
114	Satisfiability modulo theories and chiral heterotic string vacua with positive cosmological constant. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136187.	4.1	5
115	Type 0 â„2 Ã— â„2 heterotic string orbifolds and misaligned supersymmetry. International Journal of Modern Physics A, 2021, 36, 2150174.	1.5	5
116	LARGE SCALE AIR SHOWER SIMULATIONS AND THE SEARCH FOR NEW PHYSICS AT AUGER. International Journal of Modern Physics A, 2004, 19, 3729-3760.	1.5	4
117	SELF-DUALITY AND VACUUM SELECTION. International Journal of Modern Physics A, 2004, 19, 5523-5559.	1.5	4
118	The Equivalence Postulate of Quantum Mechanics, Dark Energy, and the Intrinsic Curvature of Elementary Particles. Advances in High Energy Physics, 2013, 2013, 1-10.	1.1	4
119	String Phenomenology: Past, Present and Future Perspectives. Galaxies, 2014, 2, 223-258.	3.0	4
120	Niemeier Lattices in the Free Fermionic Heteroticâ€“String Formulation. Advances in Mathematical Physics, 2017, 2017, 1-14.	0.8	4
121	Sterile neutrinos in string derived models. European Physical Journal C, 2018, 78, 1.	3.9	4
122	Exotic leptoquarks from superstring-derived models. Nuclear Physics B, 1998, 512, 42-60.	2.5	3
123	MSHSM â€“ Minimal Standard Heterotic String Models. Fortschritte Der Physik, 2010, 58, 733-737.	4.4	3
124	Constraint on spinor-vector dualities in six dimensions. Physical Review D, 2021, 103, .	4.7	3
125	$$Z'$$s and sterile neutrinos from heterotic string models: exploring $$Z'$$ mass exclusion limits. European Physical Journal C, 2022, 82, .	3.9	3
126	OPEN DESCENDANTS OF NAHE-BASED FREE FERMIONIC AND TYPE I ${mathbb Z}_2^n$ MODELS. International Journal of Modern Physics A, 2004, 19, 2931-2970.	1.5	2

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127	Little heterotic strings. European Physical Journal C, 2010, 66, 465-475.	3.9	2
128	Proton stability inSU(5)Ã—U(1)andSU(6)Ã—SU(2)GUTs. Physical Review D, 2014, 90, .	4.7	2
129	Taming triangulation dependence of T6/â„2 Ã— â„2 resolutions. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
130	On the equivalence of string vacua. Fortschritte Der Physik, 2011, 59, 1139-1143.	4.4	1
131	Hamiltonâ€“Jacobi meet MÃ¶bius. Journal of Physics: Conference Series, 2015, 631, 012010.	0.4	1
132	The MÃ¶bius symmetry of quantum mechanics. Journal of Physics: Conference Series, 2015, 626, 012016.	0.4	1
133	Towards machine learning in the classification of Z 2 Ã— Z 2 orbifold compactifications. Journal of Physics: Conference Series, 2020, 1586, 012032.	0.4	1
134	Construction of Realistic superstring Standard-like Models. Annals of the New York Academy of Sciences, 1993, 688, 488-495.	3.8	0
135	Spinorâ€“vector duality and sterile neutrinos in string derived models. Journal of Physics: Conference Series, 2020, 1586, 012026.	0.4	0
136	DUALITY, EQUIVALENCE, MASS AND THE QUEST FOR THE VACUUM. , 2000, , .		0
137	Superstring Phenomenology in Light of LEP, KamLAND, and WMAP. Springer Proceedings in Physics, 2004, , 125-145.	0.2	0
138	The Quantum Closet. Springer Proceedings in Mathematics and Statistics, 2014, , 541-549.	0.2	0
139	Realistic Superstring Models. , 1995, , 205-222.		0