

2. LISTA LUCRĂRILOR ȘTIINȚIFICE PUBLICATE ÎN REVISTE DE SPECIALITATE COTATE CNCIS, CATEGORIILE A, B și B+

Nr. crt.	DENUMIREA LUCRĂRII	AUTORI	REVISTA (nr., vol., pag.)	ANUL APARIȚIEI
1	Cohomological aspects of massless, free tensors with the mixed symmetry (k, k)	C. C. Ciobirca, E. M. Cioroianu, S. O. Saliu	Romanian Journal of Physics, Vol. 50, 269-278	2005
2	BF models	C. Bizdadea, C. C. Ciobirca, E. M. Cioroianu, S. O. Saliu, S. C. Sararu	Romanian Journal of Physics, Vol. 50, 241-248	2005
3	Connection between the courses of thermo-technique and Technical Physics thought to the students of the faculty of mechanics	M. Bica, M. Ursache, M. Socaciu	UPB Scientific Bulletin, Series A: Applied Mathematics and Physics, Vol. 67 (4), 147-156	2005
4	Thermally stimulated depolarization currents in cholesteric mixtures containing azo-derivatives	C. Rosu, G. Iacobescu, C. Motoc	UPB Scientific Bulletin, Series A: Applied Mathematics and Physics, Vol. 67 (4), 219-228	2005
5	Consistent interactions between BF and massive Dirac fields. A cohomological approach	E. M. Cioroianu, S. C. Sararu	Romanian Reports in Physics, Vol. 57, 189-203	2005
6	Integrability of dynamical systems with polynomial Hamiltonians	R. Cimpoiasu, R. Constantinescu, V. M. Cimpoiasu	Romanian Journal of Physics, Vol. 50, 317-324	2005
7	Theoretical and experimental studies on the vibrations occurring through composite crossbars	D. Bolcu, M. Ursache, G. Stanescu	Romanian Reports in Physics, Vol. 57, 239-248	2005
8	Thermo-electro-optical effect: The influence of the electric field on colour intensity	G. Iacobescu, P. Badea, M. Socaciu	UPB Scientific Bulletin, Series A: Applied Mathematics and Physics, Vol. 67 (4), 77-84	2005
9	Magnetic field effects in nematic liquid crystals doped with azo-dyes	C. Motoc, G. Iacobescu, M. Socaciu	UPB Scientific Bulletin, Series A: Applied Mathematics and Physics, Vol. 67 (4), 27-40	2005

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10	The context of physics in the educational plan of the Mechanics Faculty - University of Craiova	M. Bica, M. Ursache, G. Stanescu, G. Iacobescu	UPB Scientific Bulletin, Series A: Applied Mathematics and Physics, Vol. 67 (4), 245-249	2005
11	Interactions between one tensor field (3,1) and a single vector field	C. Bizdadea, C. C. Ciobirca, S. O. Saliu	Analele Universitatii De Vest Din Timisoara, Seria Fizica, Vol. 46, 79-86	2005
12	Couplings among Pauli-Fierz theory and an abelian three-form in D=11	E. M. Cioroianu, E. Diaconu, S. C. Sararu	Analele Universitatii De Vest Din Timisoara, Seria Fizica, Vol. 46, 87-92	2005
13	Direct construction method for conservation laws of nonlinear equations	R. Cimpoiasu, R. Constantinescu	Analele Universitatii De Vest Din Timisoara, Seria Fizica, Vol. 46, 107-111	2005
14	Interactions in theories with mixed-symmetry tensor fields	C. Bizdadea, C. C. Ciobirca, E. M. Cioroianu, I. Negru, S. O. Saliu, S.C. Sararu	Annals of the University of Craiova, Physics AUC, Vol. 15 (I), 90-110	2005
15	From chaos to a more regular behaviour by the perturbation of Hamiltonian systems	R. Cimpoiasu, V. M. Cimpoiasu, R. Constantinescu	Annals of the University of Craiova, Physics AUC, Vol. 15 (I), 157-163	2005
16	Interactions in BF models	C. Bizdadea, C. C. Ciobirca, E. M. Cioroianu, S. O. Saliu, S.C. Sararu	Annals of the University of Craiova, Physics AUC, Vol. 15 (I), 184-196	2005
17	Lagrangian interactions in a topological BF-type model in D=5 from a cohomological approach	E. M. Cioroianu, S. C. Sararu	Annals of the University of Craiova, Physics AUC, Vol. 15 (I), 197-205	2005
18	The $sp(3)$ BRST Hamiltonian formalism for the Freedman-Townsend model and its connection with the Lagrangian one	R. Constantinescu, C. Ionescu	Annals of the University of Craiova, Physics AUC, Vol. 15 (I), 206-214	2005
19	Symmetry operators for dynamical systems by high order ODEs	R. Cimpoiasu, R. Constantinescu, C. Ionescu	Annals of the University of Craiova, Physics AUC, Vol. 15 (I), 215-218	2005

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20	The correspondence between mathematical entities and physical reality (Werner Heisenberg and Twentieth Century Physics)	F. S. Uliu	Annals of the University of Craiova, Physics AUC, Vol. 15 (II), 6-13	2005
21	About the filling with electrons of the sub-shells in multi-electron atoms	F. S. Uliu	Annals of the University of Craiova, Physics AUC, Vol. 15 (II), 14-20	2005
22	“Available” quantities in thermodynamics	I.Petre, P. Rotaru	Annals of the University of Craiova, Physics AUC, Vol. 15 (II), 21-25	2005
23	Plasma frequency and pressure effects in bulk YBCO-123 superconductor system	A.Harabor, N. A. Harabor	Annals of the University of Craiova, Physics AUC, Vol. 15 (II), 26-31	2005
24	Global symmetries, conserved currents and couplings for a topological BF model in D=5	E. M. Cioroianu, S. C. Sararu	Annals of the University of Craiova, Physics AUC, Vol. 15 (II), 43-57	2005
25	Electron diffusion in a sheared unperturbed magnetic field and a relatively high electrostatic turbulence	I.Petrisor, M. Negrea	Annals of the University of Craiova, Physics AUC, Vol. 15 (II), 58-66	2005
26	Measuring the characteristic of a solar cell	E. Morintale	Annals of the University of Craiova, Physics AUC, Vol. 15 (II), 67-73	2005
27	Short range equilibrium models and first exit time statistics of self-similar processes	B. Weyssow, Gy. Steinbrecher	Annals of the University of Craiova, Physics AUC, Vol. 15 (II), 74-78	2005
28	Poloidal particle flux in a turbulent non-ohmic plasma in leading order approximation for passing particle	N. Pometescu	Annals of the University of Craiova, Physics AUC, Vol. 15 (II), 79-96	2005
29	Relaxation modes of linear kinetic balance equation in weak fields	L. Saliu	Annals of the University of Craiova, Physics AUC, Vol. 15 (II), 113-117	2005
30	Contractions, expansions, and asymptotic behaviour of representation operators	L. Saliu	Annals of the University of Craiova, Physics AUC, Vol. 15 (II), 118-122	2005

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31	Morphology and structure of the Cu ₀ /CuO-ZnO-Al ₂ O ₃ system I. Composition and texture of the system	P. Rotaru, S. I. Blejoiu, M. Stanciu, E. Morintale	Annals of the University of Craiova, Physics AUC, Vol. 15 (II), 123-128	2005
32	Morphology and structure of the Cu ₀ /CuO-ZnO-Al ₂ O ₃ system II. Thermal analysis of the system	P. Rotaru	Annals of the University of Craiova, Physics AUC, Vol. 15 (II), 129-134	2005
33	Morphology and structure of the Cu ₀ /CuO-ZnO-Al ₂ O ₃ system III. Role held by the thermal treatment in modeling the crystalline structure and the phase composition of the system	P. Rotaru	Annals of the University of Craiova, Physics AUC, Vol. 15 (II), 135-140	2005
34	Morphology and structure of the Cu ₀ /CuO-ZnO-Al ₂ O ₃ system IV. Determination of the effective surface area of the metallic copper	P. Rotaru	Annals of the University of Craiova, Physics AUC, Vol. 15 (II), 141-144	2005
35	Nematic liquid crystal photoalignment induced by dye doped polymer films	N. Eseauu, C. Uncheselu, I. Palarie, C. Dascalu	UPB Scientific Bulletin, Series A: Applied Mathematics and Physics, Vol. 67 (2), 47-56	2005
36	Contributions to the determining of the intersections of prismatic bodies by the use of the representation method for the parallel vectors' projection	M. Ursache, G. Stanescu, D. Bolcu, L. Sass, A. Duta	UPB Scientific Bulletin, Series A: Applied Mathematics and Physics, Vol. 68 (3), 41-52	2006
37	Non – canonical operators and Gauge fixing procedure	R. Constantinescu, C. Ionescu	Analele Universitatii De Vest Din Timisoara, Seria Fizica, Vol. 48, 24-33	2006
38	Reducible second – class constraints	C. Bizdadea, E. M. Cioroianu, S. O. Saliu, S. C. Săraru	Analele Universitatii De Vest Din Timisoara, Seria Fizica, Vol. 48, 34-42	2006
39	No-go couplings between an irreducible spin–one field and a massless Q-gravitino	C. Bizdadea, E. M. Cioroianu, E. Diaconu, S. C. Sararu	Analele Universitatii De Vest Din Timisoara, Seria Fizica, Vol. 48, 43-49	2006
40	Interactions between a massless tensor field with the mixed symmetry (2,2) and a two-form gauge field	C. Bizdadea, C. C. Ciobirca, I. Negru, S. O. Saliu	Analele Universitatii De Vest Din Timisoara, Seria Fizica, Vol. 48, 50-57	2006

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41	The derivation of the Dirac bracket for gauge-fixed three and two forms with Stueckelberg coupling	O. Balus, C. Bizdadea, E. M. Cioroianu, S. C. Sararu	Analele Universitatii De Vest Din Timisoara, Seria Fizica, Vol. 48, 58-67	2006
42	Consistent interactions between a Weyl graviton and a massless Q-gravitino	C. Bizdadea, E. M. Cioroianu, E. Diaconu, S. C. Sararu	Analele Universitatii De Vest Din Timisoara, Seria Fizica, Vol. 49, 59-64	2006
43	Optical glory and its polarization	F. S. Uliu	Annals of the University of Craiova, Physics AUC, Vol. 16 (I), 1-8	2006
44	About the degree of polarization of the primary rainbow generated by artificial	F. S. Uliu	Annals of the University of Craiova, Physics AUC, Vol. 16 (I), 9-18	2006
45	Ettore Majorana and his solution for the Thomas-Fermi equation	F. S. Uliu	Annals of the University of Craiova, Physics AUC, Vol. 16 (I), 19-27	2006
46	Global average quantities specific to a stochastic anisotropic sheared magnetic field	M. Negrea, I. Petrisor	Annals of the University of Craiova, Physics AUC, Vol. 16 (I), 28-43	2006
47	Electronic device for plotting the characteristics of a solar cell	E. Morintale	Annals of the University of Craiova, Physics AUC, Vol. 16 (I), 44-49	2006
48	Electrically and magnetically controlled birefringence of optical active liquid crystals	G. Iacobescu	Annals of the University of Craiova, Physics AUC, Vol. 16 (I), 50-55	2006
49	The perturbed density particle profile due to electromagnetic turbulence with nonzero $k_{ }$	N. Pometescu	Annals of the University of Craiova, Physics AUC, Vol. 16 (I), 61-67	2006
50	Temperature effects on the electric susceptibility for a solution made from 10 mg of NaC and 1ml H ₂ O	A. Harabor	Annals of the University of Craiova, Physics AUC, Vol. 16 (I), 68-73	2006
51	Instability induced anomalous transport in tokamak	Gy. Steinbrecher, B. Weysow	Annals of the University of Craiova, Physics AUC, Vol. 16 (I), 79-87	2006

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52	Thermal conductivity of some oxide systems I. Methanation catalyst	P. Rotaru	Annals of the University of Craiova, Physics AUC, Vol. 16 (I), 88-92	2006
53	Thermal conductivity of some oxide systems II. Methanation catalyst	P. Rotaru	Annals of the University of Craiova, Physics AUC, Vol. 16 (I), 93-96	2006
54	The extended BRST Lagrangean formalism for the massive vector field with high-order derivatives	C. Ionescu	Annals of the University of Craiova, Physics AUC, Vol. 16 (I), 97-102	2006
55	A note on the uniqueness of interactions between Pauli-Fierz and a Abelian three-form gauge fields in eleven spacetime dimensions	E. M. Cioroianu, E. Diaconu, S. C. Sararu	Annals of the University of Craiova, Physics AUC, Vol. 16 (I), 103-126	2006
56	Complex safe irreducible representations of nonsafe compact simple algebras	L. Ionescu, L. Saliu	Annals of the University of Craiova, Physics AUC, Vol. 16 (I), 127-136	2006
57	Local stratification of Lie algebras $sl(nC)$	L. Saliu	Annals of the University of Craiova, Physics AUC, Vol. 16 (I), 127-136	2006
58	Models from non-linear dynamics subject to symmetries	R. Cimpoiasu, R. Constantinescu	Annals of the University of Craiova, Physics AUC, Vol. 16 (II), 162-167	2006
59	Consistent interactions between the spin-two field and fermionic fields	C. Bizdadea, E. M. Cioroianu, D. Cornea, A. C. Lungu, S. O. Saliu, S. C. Sararu	Annals of the University of Craiova, Physics AUC, Vol. 16 (II), 168-193	2006
60	Invariants of the zonal-flow models	A.L. Boldea, C. L. Ionescu	Annals of the University of Craiova, Physics AUC, Vol. 16 (II), 205-208	2006
61	Cohomological couplings between a non-massive (3,1) tensor field and an Abelian p-form	C. Bizdadea, C. C. Ciobirca, S. O. Saliu	Annals of the University of Craiova, Physics AUC, Vol. 16 (II), 216-223	2006

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62	PT-invariant couplings between a collection of BF models and a system of 3-form gauge fields	C. Bizdadea, E. M. Cioroianu, S. C. Sararu	Annals of the University of Craiova, Physics AUC, Vol. 16 (II), 224-232	2006
63	No interactions for a collection of Weyl gravitons intermediated by a one-form gauge field	E. M. Cioroianu, E. Diaconu, S. C. Sararu	Annals of the University of Craiova, Physics AUC, Vol. 16 (II), 233-237	2006
64	Consistent couplings between an Abelian three-form and a non-massive Rarita-Schwinger field in D=11	E. M. Cioroianu, E. Diaconu, S. C. Sararu	Annals of the University of Craiova, Physics AUC, Vol. 16 (II), 257-262	2006
65	A new improved HSDT deformation hypothesis used to model the elastic behavior of the prismatic composite bars having elastic symmetry	Rizescu, S., Ursache, M., Bolcu, D., Stanescu, G.	Romanian Reports in Physics, Vol. 59, no.3, 795-802	2007
66	Irreducible approach to third-order reducible second-class constraints	O. Balus, C. Bizdadea, E. M. Cioroianu, S. O. Saliu, S. C. Sararu	Analele Universitatii De Vest Din Timisoara, Seria Fizica, Vol. 50	2007
67	Extreme anomalous transport driven by fractional brownian motion	B. Weyssow, Gy. Steinbrecher	Annals of the University of Craiova, Physics AUC, Vol. 17 (I), 172-189	2007
68	Fluactuating distribution function for trapped particles in turbulent plasma with radio-frequency heating	N. Pometescu	Annals of the University of Craiova, Physics AUC, Vol. 17 (I), 201-208	2007
69	Consistent interactions between a collection of BF models and a two-form gauge field	C. Bizdadea, E. M. Cioroianu, I. Negru, S. O. Saliu, S. C. Sararu	Annals of the University of Craiova, Physics AUC, Vol. 17 (I), 209-252	2007
70	Influence of magnetic stochastic drift on ion diffusion in magnetic turbulence	M. Megrea, I. Petrisor, B. Weyssow	Annals of the University of Craiova, Physics AUC, Vol. 17 (I), 253-262	2007
71	Ergodicity and robustness	B. Weyssow, Gy. Steinbrecher	Annals of the University of Craiova, Physics AUC, Vol. 17 (II), 11-21	2007
72	Noise Driven On-Off Intermittency	X. Garbet, Gy. Steinbrecher	Annals of the University of Craiova, Physics AUC, Vol. 17 (II), 22-28	2007

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73	Bifurcations in reduced ELM models	X. Garbet, Gy. Steinbrecher	Annals of the University of Craiova, Physics AUC, Vol. 17 (II), 29-41	2007
74	PT-breaking couplings between Pauli-Fierz and massive Dirac fields	C. Bizdadea, E. M. Cioroianu, A. C. Lungu, S. O. Saliu, S. C. Sararu	Annals of the University of Craiova, Physics AUC, Vol. 17 (II), 42-50	2007
75	The Dirac bracket for gauged-fixed three-form with abelian Chern-Simons coupling	O. Balus, C. C. Ciobirca, D. Cornea, E. Diaconu, I. Negru, S. C. Sararu	Annals of the University of Craiova, Physics AUC, Vol. 17 (II), 51-58	2007
76	About the polarization of the first order rainbow generated through a sequential mechanism	F. Uliu	Annals of the University of Craiova, Physics AUC, Vol. 17 (II), 59-67	2007
77	Density number perturbation for trapped particles in turbulent plasma with radio-frequency heating	N. Pometescu	Annals of the University of Craiova, Physics AUC, Vol. 17 (II), 68-74	2007
78	The effect of the Spectrometer CCD-detector position on the recorded spectrum of a HP mercury lamp	N. A. Harabor, A. Harabor, I. Palarie, I. M. Popescu	Annals of the University of Craiova, Physics AUC, Vol. 17 (II), 75-81	2007
79	Absolute concentrations of stabile species and radicals in acetylene plasma	M. Osiac	Annals of the University of Craiova, Physics AUC, Vol. 17 (II), 82-89	2007
80	Deposition of AlN and InN by means of a radio-frequency beam assisted pulsed laser deposition	M. Osiac	Annals of the University of Craiova, Physics AUC, Vol. 17 (II), 90-93	2007
81	Model-free” kinetics applied to the thermal decomposition of some azoic dyes. Part 2. Li-Tang – Linear Integral Isoconversional Method	P. Rotaru	Annals of the University of Craiova, Physics AUC, Vol. 17 (II), 99-102	2007
82	Model-free” kinetics applied to the thermal decomposition of some azoic dyes. Part 1. Friedmann Method – Linear Differential Isoconversional Method	P. Rotaru	Annals of the University of Craiova, Physics AUC, Vol. 17 (II), 94-98	2007
83	The calculus of the kinetic energy for a kinematic linkage made of composite bars using an improved HSDT-deformation hypothesis	S. Rizescu, M. Ursache	Annals of the University of Craiova, Physics AUC, Vol. 17 (II), 124-131	2007

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84	The calculus of the deformation mechanical work for a kinematic linkage made of composite bars using an improved HSDT-deformation hypothesis	S. Rizescu, M. Ursache	Annals of the University of Craiova, Physics AUC, Vol. 17 (II), 132-139	2007
85	Contractions of Lie algebras as symmetry rearrangement in Thermo Field Dynamics and associated dynamical map	L. Saliu	Annals of the University of Craiova, Physics AUC, Vol. 17 (II), 140-154	2007
86	Irreducible approach to L-order reducible second-class theories	O. Balus, C. Bizdadea, E. M. Cioroianu, S. O. Saliu, S. C. Sararu	Romanian Journal of Physics Vol. 53 (9-10), 1023-1032	2008
87	On the cohomological derivation of D=11, N=1 SUGRA	E. M. Cioroianu, E. Diaconu, S. C. Sararu	Romanian Journal of Physics Vol. 53 (9-10), 1059-1068	2008
88	Combined dynamics of physical and ghost-type fields in the Freedman-Townsend model	R. Constantinescu, C. Ionescu	Romanian Journal of Physics Vol. 53 (9-10), 1077-1082	2008
89	Upconversion avalanche processes in HO^{3+} - YB^{3+} :YLF crystal	E. Osiac, S. Kuck, I. Sokolska, M. Osiac, G. Huber	Romanian Reports in Physics Vol. 60 (4), 937-946	2008
90	Cross-couplings in D=5 between a special BF model without maximal field spectrum and a massless (2,1) tensor field from BRST cohomology	C. Bizdadea, E. M. Cioroianu, M. Iordache, S. O. Saliu, S. C. Săraru	Annals of the University of Craiova, Physics AUC Vol. 18 (I), 26-53	2008
91	Quantum aspects of the $\text{sp}(2)$ BRST path integrals for models with nonlinear gauge superalgebra	R. Constantinescu, C. Ionescu	Annals of the University of Craiova, Physics AUC Vol. 18 (I), 26-53	2008
92	A new high-order shear deformation theory hypothesis designed to describe the elasto-dynamic behavior of the right composite bars having elastic symmetry	S. Rizescu, M. Ursache, D. Bolcu, C. Mirea	Annals of the University of Craiova, Physics AUC Vol. 18 (I), 102-113	2008
93	X-ray Effect on High Intensity Discharge Plasma	N. A. Harabor, A. Harabor, I. Palarie, I. M. Popescu	Annals of the University of Craiova, Physics AUC Vol. 18 (I), 114-120	2008
94	Study of C-Ni layers deposited onto Si substrates by XRD and AFM techniques	O. G. Pompilian, G. E. Iacobescu, M. Osiac, C. P. Lungu	Annals of the University of Craiova, Physics AUC Vol. 18 (I), 78-82	2008

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95	Metal-Carbon amorphous layers obtained by TVA method	O. G. Pompilian, V. Ionescu, M. Osiac, C. P. Lungu	Annals of the University of Craiova, Physics AUC Vol. 18 (I), 54-58	2008
96	Re-NiCr plasma for high temperature resistant layer deposition	M. Osiac, O. G. Pompilian, C. P. Lungu	Annals of the University of Craiova, Physics AUC Vol. 18 (I), 59-63	2008
97	Morphology of ZnO thin films deposited by thermionic vacuum arc for various discharge - substrat distances	O. G. Pompilian, M. Osiac, G. E. Iacobescu, C. P. Lungu	Annals of the University of Craiova, Physics AUC Vol. 18 (I), 83-87	2008
98	Thickness measurements of thin film by atomic force microscopy technique	G. E. Iacobescu, M. Osiac, O. G. Pompilian, C. P. Lungu	Annals of the University of Craiova, Physics AUC Vol. 18 (I), 88-96	2008
99	Lateral force microscopy limitation when recording the topographic images	G. E. Iacobescu, M. Osiac, O. G. Pompilian, C. P. Lungu	Annals of the University of Craiova, Physics AUC Vol. 18 (I), 97-101	2008
100	A mathematical model for kinematic linkages made of deformable composite bars built by using the Hamilton's variation principle	S. Rizescu, M. Ursache, E. T. Avramescu, D. Bolcu	Romanian Reports in Physics, Vol. 61 (1), 15-25	2009
101	Selfinteractions in collections of massless tensor fields with the mixed symmetry (3,1) and (2,2)	C. Bizdadea, S. O. Saliu, E. M. Babalic	Annals of the University of Craiova, Physics AUC Vol. 19, 1-21	2009
102	Generalized evolutionary equations and their invariant solutions	R. Cimpoiașu, R. Constantinescu	Annals of the University of Craiova, Physics AUC Vol. 19, 124-128	2009
103	No cross-couplings between a collection of massless tensors with the mixed symmetry (2,2) and a Pauli-Fierz field	M. M. Barcan, M. T. Miaută, I. Negru, L. Stanciu-Oprean	Annals of the University of Craiova, Physics AUC Vol. 19, 79-91	2009
104	No go results for cross-couplings between a collection of tensors with the mixed symmetry (3,1) and a Pauli-Fierz field	M. M. Barcan, M. T. Miaută, I. Negru, L. Stanciu-Oprean	Annals of the University of Craiova, Physics AUC Vol. 19, 92-106	2009
105	Power deposition profile in tokamak plasma with ICRH	N. Pometescu	Annals of the University of Craiova, Physics AUC, Vol. 19, 73-78	2009