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List of Publications by Year
in descending order

158 papers	3,940 citations	186209 28 h-index	149623 56 g-index
161 all docs	161 docs citations	161 times ranked	2204 citing authors

#	Article	IF	Citations
1	Comparison and Evaluation of Retrospective Intermodality Brain Image Registration Techniques. Journal of Computer Assisted Tomography, 1997, 21, 554-568.	0.5	743
2	Bowel obstruction: evaluation with CT.. Radiology, 1991, 180, 313-318.	3.6	254
3	Hepatocellular tumors: characterization with Mn-DPDP-enhanced MR imaging.. Radiology, 1993, 188, 53-59.	3.6	124
4	Dynamic Three-dimensional MR Renography for the Measurement of Single Kidney Function: Initial Experience. Radiology, 2003, 227, 289-294.	3.6	121
5	Theory and Applications of the PoincarÃ© Group. , 1986, , .		113
6	Definitive diagnosis of hepatic hemangiomas: MR imaging versus Tc-99m-labeled red blood cell SPECT.. Radiology, 1990, 176, 95-101.	3.6	110
7	Covariant Harmonic Oscillators and the Quark Model. Physical Review D, 1973, 8, 3521-3527.	1.6	103
8	A new CT method for measuring cup orientation after total hip arthroplastyA study of 10 patients. Acta Orthopaedica, 2004, 75, 252-260.	1.4	93
9	<title>Comparison and evaluation of retrospective intermodality image registration techniques</title>. , 1996, , .		90
10	Graphics applied to medical image registration. IEEE Computer Graphics and Applications, 1991, 11, 20-28.	1.0	89
11	Impact of Fusion of Indium-111 Capromab Pendetide Volume Data Sets with Those from MRI or CT in Patients with Recurrent Prostate Cancer. American Journal of Roentgenology, 2004, 183, 519-524.	1.0	75
12	Linear canonical transformations of coherent and squeezed states in the Wigner phase space. Physical Review A, 1988, 37, 807-814.	1.0	73
13	Improving Specificity of Breast MRI Using Prone PET and Fused MRI and PET 3D Volume Datasets. Journal of Nuclear Medicine, 2007, 48, 528-537.	2.8	64
14	Illustrative example of Feynmanâ€™s rest of the universe. American Journal of Physics, 1999, 67, 61-66.	0.3	61
15	CT-SPECT fusion to correlate radiolabeled monoclonal antibody uptake with abdominal CT findings.. Radiology, 1989, 172, 861-865.	3.6	59
16	Role of Fusion of Prone FDG-PET and Magnetic Resonance Imaging of the Breasts in the Evaluation of Breast Cancer. Breast Journal, 2010, 16, no-no.	0.4	58
17	Stokes parameters as a Minkowskian four-vector. Physical Review E, 1997, 56, 6065-6076.	0.8	53
18	High-attenuation lymphadenopathy in AIDS patients: significance of findings at CT.. Radiology, 1992, 185, 777-781.	3.6	52

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19	A versatile functional-anatomic image fusion method for volume data sets. Journal of Medical Systems, 2001, 25, 297-307.	2.2	50
20	Covariant harmonic oscillators and the parton picture. Physical Review D, 1977, 15, 335-338.	1.6	48
21	Quantifying the Increase in Radiation Exposure Associated with SPECT/CT Compared to SPECT Alone for Routine Nuclear Medicine Examinations. International Journal of Molecular Imaging, 2011, 2011, 1-5.	1.3	44
22	Appendicitis in Children: Low-Dose CT with a Phantom-based Simulation Techniqueâ€"Initial Observations. Radiology, 2005, 237, 641-646.	3.6	39
23	Covariant harmonic oscillators and excited meson decays. Physical Review D, 1975, 12, 129-138.	1.6	38
24	Representations of the PoincarÃ© group for relativistic extended hadrons. Journal of Mathematical Physics, 1979, 20, 1341-1344.	0.5	38
25	Evaluation of a semiautomatic 3D fusion technique applied to molecular imaging and MRI brain/frame volume data sets. Journal of Medical Systems, 2003, 27, 141-156.	2.2	38
26	Linear canonical transformations of coherent and squeezed states in the Wigner phase space. III. Two-mode states. Physical Review A, 1990, 41, 6233-6244.	1.0	36
27	Evaluation of a segmentation procedure to delineate organs for use in construction of a radiation therapy planning atlas. International Journal of Medical Informatics, 2003, 69, 39-55.	1.6	36
28	Hepatic hemangiomas: diagnosis with fusion of MR, CT, and Tc-99m-labeled red blood cell SPECT images.. Radiology, 1991, 181, 469-474.	3.6	35
29	QSH: a minimal but highly portable image display and handling toolkit. Computer Methods and Programs in Biomedicine, 1988, 27, 229-240.	2.6	31
30	An Analysis of Extradural Dead Space after Fronto-Orbital Surgery. Plastic and Reconstructive Surgery, 1994, 93, 1372.	0.7	30
31	Prone MammoPET Acquisition Improves the Ability to Fuse MRI and PET Breast Scans. Clinical Nuclear Medicine, 2007, 32, 194-198.	0.7	30
32	Principal axes and surface fitting methods for three-dimensional image registration. Journal of Nuclear Medicine, 1993, 34, 2019-24.	2.8	30
33	A simple method for illustrating the difference between the homogeneous and inhomogeneous Lorentz groups. American Journal of Physics, 1979, 47, 892-897.	0.3	28
34	O(3,3)â€like symmetries of coupled harmonic oscillators. Journal of Mathematical Physics, 1995, 36, 3940-3954.	0.5	27
35	Physical basis for minimal time-energy uncertainty relation. Foundations of Physics, 1979, 9, 375-387.	0.6	26
36	CT-SPECT fusion for analysis of radiolabeled antibodies: Applications in gastrointestinal and lung carcinoma. International Journal of Radiation Applications and Instrumentation Part B, Nuclear Medicine and Biology, 1991, 18, 27-42.	0.3	26

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37	A Classification of Plagiocephaly Utilizing a Three-Dimensional Computer Analysis of Cranial Base Landmarks. Annals of Plastic Surgery, 1996, 36, 469-474.	0.5	26
38	Jones-matrix formalism as a representation of the Lorentz group. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 2290.	0.8	25
39	Lorentz group in classical ray optics. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S455-S472.	1.4	25
40	Radioimmunolocalization of metastatic breast carcinoma using indium-111-methyl benzyl DTPA BrE-3 monoclonal antibody: phase I study. Journal of Nuclear Medicine, 1993, 34, 1067-74.	2.8	25
41	<title>Constructing topologically connected surfaces for the comprehensive analysis of 3-D medical structures</title>. , 1991, , .		24
42	Wigner rotations and Iwasawa decompositions in polarization optics. Physical Review E, 1999, 60, 1036-1041.	0.8	23
43	Lorentz-squeezed hadrons and hadronic temperature. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 144, 111-115.	0.9	22
44	Validation of a 3D CT method for measurement of linear wear of acetabular cups. Monthly Notices of the Royal Astronomical Society: Letters, 2011, 82, 35-41.	1.2	22
45	Linear canonical transformations of coherent and squeezed states in the Wigner phase space. II. Quantitative analysis. Physical Review A, 1989, 40, 902-912.	1.0	19
46	Symmetries of twoâ€mode squeezed states. Journal of Mathematical Physics, 1993, 34, 5493-5508.	0.5	19
47	Three-dimensional movements of the lumbar spine facet joints and segmental movements: in vivo examinations of normal subjects with a new non-invasive method. European Spine Journal, 2012, 21, 599-605.	1.0	19
48	Covariant harmonic oscillators and diffractive excitations. Physical Review D, 1975, 12, 122-128.	1.6	18
49	Relativistic harmonic oscillators and hadronic structures in the quantumâ€mechanics curriculum. American Journal of Physics, 1978, 46, 484-488.	0.3	18
50	Procedure for unmasking localization information from ProstaScint scans for prostate radiation therapy treatment planning. International Journal of Radiation Oncology Biology Physics, 2004, 60, 654-662.	0.4	18
51	Group theory of covariant harmonic oscillators. American Journal of Physics, 1978, 46, 480-483.	0.3	17
52	Quantitative and qualitative comparison of volumetric and surface rendering techniques. IEEE Transactions on Nuclear Science, 1991, 38, 659-662.	1.2	17
53	Stratifying Differences on Ictal/Interictal Subtraction SPECT Images. Epilepsia, 2003, 44, 379-386.	2.6	17
54	A new approach for assessment of wear in metal-backed acetabular cups using computed tomography: A phantom study with retrievals. Monthly Notices of the Royal Astronomical Society: Letters, 2008, 79, 218-224.	1.2	17

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55	Evaluation of mobility and stability in the Discover artificial disc: an in vivo motion study using high-accuracy 3D CT data. Journal of Neurosurgery: Spine, 2015, 23, 383-389.	0.9	17
56	Accuracy and Precision of Three-Dimensional Low Dose CT Compared to Standard RSA in Acetabular Cups: An Experimental Study. BioMed Research International, 2016, 2016, 1-6.	0.9	17
57	Radioimmunodetection of non-small cell lung cancer using technetium-99m-anticarcinoembryonic antigen immu-4 fabâ€² fragment. Cancer, 1994, 73, 890-895.	2.0	16
58	Interferometers and decoherence matrices. Physical Review E, 2000, 61, 5907-5913.	0.8	16
59	In vivo and ex vivo measurement of polyethylene wear in total hip arthroplasty. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 85, 271-275.	1.2	16
60	Illustrative examples of the symplectic group. American Journal of Physics, 1983, 51, 368-375.	0.3	15
61	Uncertainty relations for light waves and the concept of photons. Physical Review A, 1987, 35, 1682-1691.	1.0	15
62	Polarization optics and bilinear representation of the Lorentz group. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 219, 26-32.	0.9	15
63	Coupled oscillators, entangled oscillators, and Lorentz-covariant harmonic oscillators. Journal of Optics B: Quantum and Semiclassical Optics, 2005, 7, S458-S467.	1.4	15
64	A new technique for diagnosis of acetabular cup loosening using computed tomography: Preliminary experience in 10 patients. Monthly Notices of the Royal Astronomical Society: Letters, 2008, 79, 346-353.	1.2	15
65	Are CT Scans a Satisfactory Substitute for the Follow-Up of RSA Migration Studies of Uncemented Cups? A Comparison of RSA Double Examinations and CT Datasets of 46 Total Hip Arthroplasties. BioMed Research International, 2017, 2017, 1-11.	0.9	15
66	Diracâ€™s lightâ€cone coordinate system. American Journal of Physics, 1982, 50, 721-724.	0.3	14
67	Internal spaceâ€time symmetries of massive and massless particles. American Journal of Physics, 1984, 52, 1037-1043.	0.3	14
68	Image formats: Five years after the AAPM standard for digital image interchange. Medical Physics, 1989, 16, 818-823.	1.6	14
69	Space-time symmetries of confined quarks. Physical Review D, 1982, 25, 1740-1743.	1.6	13
70	c-number time-energy uncertainty relation in the quark model. Physical Review D, 1983, 27, 3032-3035.	1.6	13
71	Motion analysis of total cervical disc replacements using computed tomography: Preliminary experience with nine patients and a model. Acta Radiologica, 2011, 52, 1128-1137.	0.5	13
72	Accuracy and precision of a CT method for assessing migration in shoulder arthroplasty: an experimental study. Acta Radiologica, 2020, 61, 776-782.	0.5	13

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73	Lorentz deformation and the jet phenomenon. Foundations of Physics, 1979, 9, 947-954.	0.6	12
74	A CT method for following patients with both prosthetic replacement and implanted tantalum beads: preliminary analysis with a pelvic model and in seven patients. Journal of Orthopaedic Surgery and Research, 2016, 11, 27.	0.9	12
75	Are low-dose CT scans a satisfactory substitute for stereoradiographs for migration studies? A preclinical test of low-dose CT scanning protocols and their application in a pilot patient. Acta Radiologica, 2019, 60, 1643-1652.	0.5	12
76	Evaluation of polynomial image deformation using anatomical landmarks for matching of 3D-abdominal MR-images and for atlas construction. IEEE Transactions on Nuclear Science, 1999, 46, 1110-1113.	1.2	10
77	Quark model in the quantum mechanics curriculum. American Journal of Physics, 1980, 48, 1043-1049.	0.3	9
78	Symplectic formulation of relativistic quantum mechanics. Journal of Mathematical Physics, 1981, 22, 2289-2293.	0.5	9
79	A model-based optimal planning and execution system with active sensing and passive manipulation for augmentation of human precision in computer-integrated surgery. , 1993, , 177-195.		9
80	Wavelets, windows, and photons. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 206, 299-304.	0.9	9
81	Graphical 3D medical image registration and quantification. Journal of Medical Systems, 1997, 21, 155-172.	2.2	9
82	Can Spatiotemporal Fluoride (18Fâˆ') Uptake be Used to Assess Bone Formation in the Tibia? A Longitudinal Study Using PET/CT. Clinical Orthopaedics and Related Research, 2017, 475, 1486-1498.	0.7	9
83	Threeâ€particle symmetry classifications according to the method of Dirac. American Journal of Physics, 1980, 48, 1038-1042.	0.3	8
84	Physical principles in quantum field theory and in covariant harmonic oscillator formalism. Foundations of Physics, 1981, 11, 895-905.	0.6	8
85	Timeâ€energy uncertainty relation and Lorentz covariance. American Journal of Physics, 1985, 53, 142-147.	0.3	8
86	An integrated approach to biodistribution radiation absorbed dose estimates. European Journal of Nuclear Medicine and Molecular Imaging, 1993, 20, 165-169.	2.2	8
87	A New Technique for Measuring Wear in Total Hip Arthroplasty Using Computed Tomography. Journal of Arthroplasty, 2012, 27, 1636-1640.e1.	1.5	8
88	Radioimmunolocalization of Breast Cancer Using BrE-3 Monoclonal Antibody. Advances in Experimental Medicine and Biology, 1994, 353, 181-192.	0.8	8
89	Lorentz deformation in the O(4) and lightâ€cone coordinate systems. Journal of Mathematical Physics, 1980, 21, 1224-1228.	0.5	7
90	Computer aided planning and execution of craniofacial surgical procedures. , 1992, , .		7

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91	Model studies on segmental movement in lumbar spine using a semi-automated program for volume fusion. Computer Aided Surgery, 2008, 13, 14-22.	1.8	7
92	Symmetries Shared by the PoincarÃ© Group and the PoincarÃ© Sphere. Symmetry, 2013, 5, 233-252.	1.1	7
93	A New Automated Way to Measure Polyethylene Wear in THA Using a High Resolution CT Scanner: Method and Analysis. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	7
94	A New CT Method for Assessing 3D Movements in Lumbar Facet Joints and Vertebrae in Patients before and after TDR. BioMed Research International, 2015, 2015, 1-9.	0.9	7
95	Entangled Harmonic Oscillators and Space-Time Entanglement. Symmetry, 2016, 8, 55.	1.1	7
96	Prosthetic liner wear in total hip replacement: a longitudinal 13-year study with computed tomography. Skeletal Radiology, 2018, 47, 883-887.	1.2	7
97	Standardizing the raster display for medical images using a fixed set of frame buffer primitives. Journal of Medical Systems, 1986, 10, 209-228.	2.2	6
98	Fusion of radiostereometric analysis data into computed tomography space: Application to the elbow joint. Journal of Biomechanics, 2007, 40, 296-304.	0.9	6
99	Lorentz Harmonics, Squeeze Harmonics and Their Physical Applications. Symmetry, 2011, 3, 16-36.	1.1	6
100	PoincarÃ© Symmetry from Heisenbergâ€™s Uncertainty Relations. Symmetry, 2019, 11, 409.	1.1	6
101	Einsteinâ€™s E=mc2 Derivable from Heisenbergâ€™s Uncertainty Relations. Quantum Reports, 2019, 1, 236-251.	0.6	6
102	Use of graphical techniques for error evaluation. Journal of Medical Systems, 1987, 11, 277-286.	2.2	5
103	Graphical interface for medical image processing. Journal of Medical Systems, 1993, 17, 1-16.	2.2	5
104	<title>Landmark-based 3D fusion of SPECT and CT images</title>. , 1993, 2059, 166.		5
105	Dirac Matrices and Feynmanâ€™s Rest of the Universe. Symmetry, 2012, 4, 626-643.	1.1	5
106	Can Na¹⁸F PET/CT Be Used to Study Bone Remodeling in the Tibia When Patients Are Being Treated with a Taylor Spatial Frame?. Scientific World Journal, The, 2014, 2014, 1-9.	0.8	5
107	Technical Requirements for Na18F PET Bone Imaging of Patients Being Treated Using a Taylor Spatial Frame. Journal of Nuclear Medicine Technology, 2014, 42, 33-36.	0.4	5
108	Using PET/CT Bone Scan Dynamic Data to Evaluate Tibia Remodeling When a Taylor Spatial Frame Is Used: Short and Longer Term Differences. BioMed Research International, 2015, 2015, 1-11.	0.9	5

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109	Motion Analysis in Lumbar Spinal Stenosis With Degenerative Spondylolisthesis. Clinical Spine Surgery, 2018, 31, E397-E402.	0.7	5
110	Lorentz deformation and the jet phenomenon. II. Explanation of the nearly constant average jet transverse momentum. Foundations of Physics, 1980, 10, 635-639.	0.6	4
111	A distribution system for digital images from diverse image sources. Journal of Medical Systems, 1983, 7, 349-361.	2.2	4
112	Modus operandi for a picture archiving and communication system.. Radiology, 1984, 152, 221-223.	3.6	4
113	Tumor Localization and Image Registration of F-18 FDG Coincidence Detection Scans with Computed Tomographic Scans. Clinical Nuclear Medicine, 2002, 27, 275-282.	0.7	4
114	Wignerâ€™s Space-Time Symmetries Based on the Two-by-Two Matrices of the Damped Harmonic Oscillators and the PoincarÃ© Sphere. Symmetry, 2014, 6, 473-515.	1.1	4
115	Covariant harmonic oscillators and chiral configuration mixing. Physical Review D, 1977, 15, 2032-2035.	1.6	3
116	The Question of Simultaneity in Relativity and Quantum Mechanics. AIP Conference Proceedings, 2006, , .	0.3	3
117	Will haptic feedback speed up medical imaging? An application to radiation treatment planning. Acta OncolÃ³gica, 2008, 47, 32-37.	0.8	3
118	Prone Breast Dual-Time-Point PET/CT Compared With MRI for Determining Breast Cancer. American Journal of Roentgenology, 2009, 193, W77-W77.	1.0	3
119	A potential means of improving the evaluation of deformity corrections with Taylor Spatial Frames over time by using volumetric imaging: Preliminary results. Computer Aided Surgery, 2009, 14, 100-108.	1.8	3
120	Clinical application ofin vivotreatment delivery verification based on PET/CT imaging of positron activity induced at high energy photon therapy. Physics in Medicine and Biology, 2013, 58, 5541-5553.	1.6	3
121	Feynmanâ€™s decoherence. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2003, 94, 733-740.	0.2	2
122	Enhancing the Utility of ProstaScint SPECT Scans for Patient Management. Journal of Medical Systems, 2006, 30, 123-132.	2.2	2
123	Computed tomography analysis of radiostereometric data to determine flexion axes after total joint replacement: Application to the elbow joint. Journal of Biomechanics, 2010, 43, 1947-1952.	0.9	2
124	Radioactivity of Blood Samples Taken from Thyroidectomized Thyroid Carcinoma Patients After Therapy with 131I. Thyroid, 2011, 21, 1009-1012.	2.4	2
125	Dynamic PET/CT measurements of induced positron activity in a prostate cancer patient after 50-MV photon radiation therapy. EJNMMI Research, 2013, 3, 6.	1.1	2
126	Loop Representation of Wignerâ€™s Little Groups. Symmetry, 2017, 9, 97.	1.1	2

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127	Can Na18F PET/CT bone scans help when deciding if early intervention is needed in patients being treated with a TSF attached to the tibia: insights from 41 patients. European Journal of Orthopaedic Surgery and Traumatology, 2021, 31, 349-364.	0.6	2
128	Design and construction of a microdensitometer computer interface. Journal of Medical Systems, 1978, 2, 315-326.	2.2	1
129	Interfacf Requirements in Nuclear Medicine-Devices and Systems. IEEE Transactions on Nuclear Science, 1982, 29, 1280-1290.	1.2	1
130	Multimodality image display: Desirable frame buffer characteristics. Journal of Medical Systems, 1988, 12, 189-200.	2.2	1
131	<title>Quantitative 3D visualization in nuclear medicine</title>. , 1995, , .		1
132	IS IT POSSIBLE TO CONSTRUCT THE PROTON STRUCTURE FUNCTION BY LORENTZ-BOOSTING THE STATIC QUARK-MODEL WAVE FUNCTION?. International Journal of Modern Physics A, 2004, 19, 5435-5442.	0.5	1
133	Unmasking true signal/tumor information from ProstaScint scans. , 2004, , .		1
134	Harmonic Oscillators as Bridges between Theories. AIP Conference Proceedings, 2005, , .	0.3	1
135	Can you do quantum mechanics without Einstein?. AIP Conference Proceedings, 2007, , .	0.3	1
136	Do Small-Mass Neutrinos Participate in Gauge Transformations?. Advances in High Energy Physics, 2016, 2016, 1-7.	0.5	1
137	Integration of Diracâ€™s Efforts to Construct a Quantum Mechanics Which is Lorentz-Covariant. Symmetry, 2020, 12, 1270.	1.1	1
138	Analytic formulation of SU(3) vector coupling coefficients for n particles. Computer Physics Communications, 1973, 5, 365-378.	3.0	0
139	SU(3) projection operator as a polynomial in the generators. Nuclear Physics B, 1973, 51, 309-316.	0.9	0
140	Calculation of , Î“ and. The International Journal of Applied Radiation and Isotopes, 1975, 26, 785-786.	0.7	0
141	A Modular Computer System for the Nuclear Medicineâ^•Ultrasound Laboratory. Radiology, 1977, 124, 759-762.	3.6	0
142	Introduction to Nuclear Radiation Detectors by P. J. Ouseph. Medical Physics, 1977, 4, 270-270.	1.6	0
143	A modular computer system for the Nuclear Medicine/ultrasound laboratory: A multidisciplinary proposal. Journal of Medical Systems, 1977, 1, 251-261.	2.2	0
144	Little groups, the quark model and gauge transformations. Physica A: Statistical Mechanics and Its Applications, 1982, 114, 197-199.	1.2	0

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145	Gamma camera MTF measurements using an image chain analysis approach. Journal of Biomedical Informatics, 1983, 16, 149-159.	0.7	0
146	Group contractions and the E(2)-like little group for massless particles as an infinite-momentum/zero-mass limit of the O(3)-like little group for massive particles. , 1984, , 45-49.		0
147	Temporal decoherence in Lorentz-squeezed hadrons. , 1991, , 442-449.		0
148	<title>Feasibility of quantification of unreconstructed SPECT projection views using the opposing view method</title>. , 1996, , .		0
149	<title>Comparison of three methods for registration of abdominal/pelvic volume data sets from functional-anatomic scans</title>. , 2000, , .		0
150	Brain Tumor Imaging. , 2002, , .		0
151	Image Registration in the Thorax, Abdomen, and Pelvis. , 2002, , .		0
152	Qualifying CT for wrist arthroplasty: extending techniques for total hip arthroplasty to total wrist arthroplasty. , 2005, , .		0
153	Standing Waves in the Lorentz-Covariant World. Foundations of Physics, 2005, 35, 1289-1305.	0.6	0
154	Uncertainty relations for light waves and the concept of photons. , 1988, , 430-439.		0
155	Covariant harmonic oscillators and the parton picture. , 1988, , 313-316.		0
156	Time-energy uncertainty relation and Lorentz covariance. , 1988, , 210-215.		0
157	Internal space-time symmetries of massive and massless particles. , 1988, , 372-378.		0
158	Linear canonical transformations of coherent and squeezed states in the Wigner phase space. , 1988, , 497-504.		0