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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	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
2	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
3	Integration of Diracâ€™s Efforts to Construct a Quantum Mechanics Which is Lorentz-Covariant. Symmetry, 2020, 12, 1270.	1.1	1
4	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
5	PoincarÃ© Symmetry from Heisenbergâ€™s Uncertainty Relations. Symmetry, 2019, 11, 409.	1.1	6
6	Einsteinâ€™s E=mc2 Derivable from Heisenbergâ€™s Uncertainty Relations. Quantum Reports, 2019, 1, 236-251.	0.6	6
7	Prosthetic liner wear in total hip replacement: a longitudinal 13-year study with computed tomography. Skeletal Radiology, 2018, 47, 883-887.	1.2	7
8	Motion Analysis in Lumbar Spinal Stenosis With Degenerative Spondylolisthesis. Clinical Spine Surgery, 2018, 31, E397-E402.	0.7	5
9	Can Spatiotemporal Fluoride (18Fâ^') 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
10	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
11	Loop Representation of Wignerâ€™s Little Groups. Symmetry, 2017, 9, 97.	1.1	2
12	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
13	Do Small-Mass Neutrinos Participate in Gauge Transformations?. Advances in High Energy Physics, 2016, 2016, 1-7.	0.5	1
14	Entangled Harmonic Oscillators and Space-Time Entanglement. Symmetry, 2016, 8, 55.	1.1	7
15	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
16	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
17	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
18	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

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19	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
20	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
21	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
22	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
23	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
24	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
25	Symmetries Shared by the PoincarÃ© Group and the PoincarÃ© Sphere. Symmetry, 2013, 5, 233-252.	1.1	7
26	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
27	Dirac Matrices and Feynmanâ€™s Rest of the Universe. Symmetry, 2012, 4, 626-643.	1.1	5
28	A New Technique for Measuring Wear in Total Hip Arthroplasty Using Computed Tomography. Journal of Arthroplasty, 2012, 27, 1636-1640.e1.	1.5	8
29	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
30	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
31	Radioactivity of Blood Samples Taken from Thyroidectomized Thyroid Carcinoma Patients After Therapy with 131I. Thyroid, 2011, 21, 1009-1012.	2.4	2
32	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
33	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
34	Lorentz Harmonics, Squeeze Harmonics and Their Physical Applications. Symmetry, 2011, 3, 16-36.	1.1	6
35	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
36	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

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37	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
38	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
39	Will haptic feedback speed up medical imaging? An application to radiation treatment planning. Acta OncolÃ³gica, 2008, 47, 32-37.	0.8	3
40	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
41	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
42	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
43	Can you do quantum mechanics without Einstein?. AIP Conference Proceedings, 2007, , .	0.3	1
44	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
45	Prone MammoPET Acquisition Improves the Ability to Fuse MRI and PET Breast Scans. Clinical Nuclear Medicine, 2007, 32, 194-198.	0.7	30
46	Fusion of radiostereometric analysis data into computed tomography space: Application to the elbow joint. Journal of Biomechanics, 2007, 40, 296-304.	0.9	6
47	The Question of Simultaneity in Relativity and Quantum Mechanics. AIP Conference Proceedings, 2006, , .	0.3	3
48	Enhancing the Utility of ProstaScint SPECT Scans for Patient Management. Journal of Medical Systems, 2006, 30, 123-132.	2.2	2
49	Qualifying CT for wrist arthroplasty: extending techniques for total hip arthroplasty to total wrist arthroplasty. , 2005, , .		0
50	Standing Waves in the Lorentz-Covariant World. Foundations of Physics, 2005, 35, 1289-1305.	0.6	0
51	Appendicitis in Children: Low-Dose CT with a Phantom-based Simulation Techniqueâ€"Initial Observations. Radiology, 2005, 237, 641-646.	3.6	39
52	Harmonic Oscillators as Bridges between Theories. AIP Conference Proceedings, 2005, , .	0.3	1
53	Coupled oscillators, entangled oscillators, and Lorentz-covariant harmonic oscillators. Journal of Optics B: Quantum and Semiclassical Optics, 2005, 7, S458-S467.	1.4	15
54	Lorentz group in classical ray optics. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S455-S472.	1.4	25

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55	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
56	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
57	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
58	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
59	Unmasking true signal/tumor information from ProstaScint scans. , 2004, , .		1
60	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
61	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
62	Stratifying Differences on Ictal/Interictal Subtraction SPECT Images. Epilepsia, 2003, 44, 379-386.	2.6	17
63	Feynmanâ€™s decoherence. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2003, 94, 733-740.	0.2	2
64	Dynamic Three-dimensional MR Renography for the Measurement of Single Kidney Function: Initial Experience. Radiology, 2003, 227, 289-294.	3.6	121
65	Brain Tumor Imaging. , 2002, , .		0
66	Image Registration in the Thorax, Abdomen, and Pelvis. , 2002, , .		0
67	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
68	A versatile functional-anatomic image fusion method for volume data sets. Journal of Medical Systems, 2001, 25, 297-307.	2.2	50
69	<title>Comparison of three methods for registration of abdominal/pelvic volume data sets from functional-anatomic scans</title>. , 2000, , .		0
70	Interferometers and decoherence matrices. Physical Review E, 2000, 61, 5907-5913.	0.8	16
71	Wigner rotations and Iwasawa decompositions in polarization optics. Physical Review E, 1999, 60, 1036-1041.	0.8	23
72	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

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73	Illustrative example of Feynmanâ€™s rest of the universe. American Journal of Physics, 1999, 67, 61-66.	0.3	61
74	Stokes parameters as a Minkowskian four-vector. Physical Review E, 1997, 56, 6065-6076.	0.8	53
75	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
76	Graphical 3D medical image registration and quantification. Journal of Medical Systems, 1997, 21, 155-172.	2.2	9
77	Comparison and Evaluation of Retrospective Intermodality Brain Image Registration Techniques. Journal of Computer Assisted Tomography, 1997, 21, 554-568.	0.5	743
78	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
79	<title>Feasibility of quantification of unreconstructed SPECT projection views using the opposing view method</title>. , 1996, , .		0
80	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
81	<title>Comparison and evaluation of retrospective intermodality image registration techniques</title>. , 1996, , .		90
82	<title>Quantitative 3D visualization in nuclear medicine</title>. , 1995, , .		1
83	Wavelets, windows, and photons. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 206, 299-304.	0.9	9
84	O(3,3)â€like symmetries of coupled harmonic oscillators. Journal of Mathematical Physics, 1995, 36, 3940-3954.	0.5	27
85	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
86	An Analysis of Extradural Dead Space after Fronto-Orbital Surgery. Plastic and Reconstructive Surgery, 1994, 93, 1372.	0.7	30
87	Radioimmunolocalization of Breast Cancer Using BrE-3 Monoclonal Antibody. Advances in Experimental Medicine and Biology, 1994, 353, 181-192.	0.8	8
88	An integrated approach to biodistribution radiation absorbed dose estimates. European Journal of Nuclear Medicine and Molecular Imaging, 1993, 20, 165-169.	2.2	8
89	Graphical interface for medical image processing. Journal of Medical Systems, 1993, 17, 1-16.	2.2	5
90	Hepatocellular tumors: characterization with Mn-DPDP-enhanced MR imaging.. Radiology, 1993, 188, 53-59.	3.6	124

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91	Symmetries of twoâ€mode squeezed states. Journal of Mathematical Physics, 1993, 34, 5493-5508.	0.5	19
92	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
93	<title>Landmark-based 3D fusion of SPECT and CT images</title>. , 1993, 2059, 166.		5
94	Principal axes and surface fitting methods for three-dimensional image registration. Journal of Nuclear Medicine, 1993, 34, 2019-24.	2.8	30
95	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
96	Computer aided planning and execution of craniofacial surgical procedures. , 1992, , .		7
97	High-attenuation lymphadenopathy in AIDS patients: significance of findings at CT.. Radiology, 1992, 185, 777-781.	3.6	52
98	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
99	Graphics applied to medical image registration. IEEE Computer Graphics and Applications, 1991, 11, 20-28.	1.0	89
100	<title>Constructing topologically connected surfaces for the comprehensive analysis of 3-D medical structures</title>. , 1991, , .		24
101	Temporal decoherence in Lorentz-squeezed hadrons. , 1991, , 442-449.		0
102	Bowel obstruction: evaluation with CT.. Radiology, 1991, 180, 313-318.	3.6	254
103	Quantitative and qualitative comparison of volumetric and surface rendering techniques. IEEE Transactions on Nuclear Science, 1991, 38, 659-662.	1.2	17
104	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
105	Lorentz-squeezed hadrons and hadronic temperature. Physics Letters, Section A: General, Atomic and Solid State Physics, 1990, 144, 111-115.	0.9	22
106	Definitive diagnosis of hepatic hemangiomas: MR imaging versus Tc-99m-labeled red blood cell SPECT.. Radiology, 1990, 176, 95-101.	3.6	110
107	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
108	Image formats: Five years after the AAPM standard for digital image interchange. Medical Physics, 1989, 16, 818-823.	1.6	14

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109	CT-SPECT fusion to correlate radiolabeled monoclonal antibody uptake with abdominal CT findings.. Radiology, 1989, 172, 861-865.	3.6	59
110	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
111	Multimodality image display: Desirable frame buffer characteristics. Journal of Medical Systems, 1988, 12, 189-200.	2.2	1
112	QSH: a minimal but highly portable image display and handling toolkit. Computer Methods and Programs in Biomedicine, 1988, 27, 229-240.	2.6	31
113	Linear canonical transformations of coherent and squeezed states in the Wigner phase space. Physical Review A, 1988, 37, 807-814.	1.0	73
114	Uncertainty relations for light waves and the concept of photons. , 1988, , 430-439.		0
115	Covariant harmonic oscillators and the parton picture. , 1988, , 313-316.		0
116	Time-energy uncertainty relation and Lorentz covariance. , 1988, , 210-215.		0
117	Internal space-time symmetries of massive and massless particles. , 1988, , 372-378.		0
118	Linear canonical transformations of coherent and squeezed states in the Wigner phase space. , 1988, , 497-504.		0
119	Uncertainty relations for light waves and the concept of photons. Physical Review A, 1987, 35, 1682-1691.	1.0	15
120	Use of graphical techniques for error evaluation. Journal of Medical Systems, 1987, 11, 277-286.	2.2	5
121	Theory and Applications of the PoincarÃ© Group. , 1986, , .		113
122	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
123	Timeâ€energy uncertainty relation and Lorentz covariance. American Journal of Physics, 1985, 53, 142-147.	0.3	8
124	Modus operandi for a picture archiving and communication system.. Radiology, 1984, 152, 221-223.	3.6	4
125	Internal spaceâ€time symmetries of massive and massless particles. American Journal of Physics, 1984, 52, 1037-1043.	0.3	14
126	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

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127	A distribution system for digital images from diverse image sources. Journal of Medical Systems, 1983, 7, 349-361.	2.2	4
128	Gamma camera MTF measurements using an image chain analysis approach. Journal of Biomedical Informatics, 1983, 16, 149-159.	0.7	0
129	c-number time-energy uncertainty relation in the quark model. Physical Review D, 1983, 27, 3032-3035.	1.6	13
130	Illustrative examples of the symplectic group. American Journal of Physics, 1983, 51, 368-375.	0.3	15
131	Space-time symmetries of confined quarks. Physical Review D, 1982, 25, 1740-1743.	1.6	13
132	Diracâ€™s lightâ€cone coordinate system. American Journal of Physics, 1982, 50, 721-724.	0.3	14
133	Little groups, the quark model and gauge transformations. Physica A: Statistical Mechanics and Its Applications, 1982, 114, 197-199.	1.2	0
134	Interfacf Requirements in Nuclear Medicine-Devices and Systems. IEEE Transactions on Nuclear Science, 1982, 29, 1280-1290.	1.2	1
135	Physical principles in quantum field theory and in covariant harmonic oscillator formalism. Foundations of Physics, 1981, 11, 895-905.	0.6	8
136	Symplectic formulation of relativistic quantum mechanics. Journal of Mathematical Physics, 1981, 22, 2289-2293.	0.5	9
137	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
138	Quark model in the quantum mechanics curriculum. American Journal of Physics, 1980, 48, 1043-1049.	0.3	9
139	Lorentz deformation in the O(4) and lightâ€cone coordinate systems. Journal of Mathematical Physics, 1980, 21, 1224-1228.	0.5	7
140	Threeâ€particle symmetry classifications according to the method of Dirac. American Journal of Physics, 1980, 48, 1038-1042.	0.3	8
141	Representations of the PoincarÃ© group for relativistic extended hadrons. Journal of Mathematical Physics, 1979, 20, 1341-1344.	0.5	38
142	Physical basis for minimal time-energy uncertainty relation. Foundations of Physics, 1979, 9, 375-387.	0.6	26
143	Lorentz deformation and the jet phenomenon. Foundations of Physics, 1979, 9, 947-954.	0.6	12
144	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

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145	Relativistic harmonic oscillators and hadronic structures in the quantumâ€mechanics curriculum. American Journal of Physics, 1978, 46, 484-488.	0.3	18
146	Design and construction of a microdensitometer computer interface. Journal of Medical Systems, 1978, 2, 315-326.	2.2	1
147	Group theory of covariant harmonic oscillators. American Journal of Physics, 1978, 46, 480-483.	0.3	17
148	A Modular Computer System for the Nuclear Medicineâ•Ultrasound Laboratory. Radiology, 1977, 124, 759-762.	3.6	0
149	Covariant harmonic oscillators and the parton picture. Physical Review D, 1977, 15, 335-338.	1.6	48
150	Covariant harmonic oscillators and chiral configuration mixing. Physical Review D, 1977, 15, 2032-2035.	1.6	3
151	Introduction to Nuclear Radiation Detectors by P. J. Ouseph. Medical Physics, 1977, 4, 270-270.	1.6	0
152	A modular computer system for the Nuclear Medicine/ultrasound laboratory: A multidisciplinary proposal. Journal of Medical Systems, 1977, 1, 251-261.	2.2	0
153	Calculation of , Î“ and. The International Journal of Applied Radiation and Isotopes, 1975, 26, 785-786.	0.7	0
154	Covariant harmonic oscillators and excited meson decays. Physical Review D, 1975, 12, 129-138.	1.6	38
155	Covariant harmonic oscillators and diffractive excitations. Physical Review D, 1975, 12, 122-128.	1.6	18
156	Analytic formulation of SU(3) vector coupling coefficients for n particles. Computer Physics Communications, 1973, 5, 365-378.	3.0	0
157	SU(3) projection operator as a polynomial in the generators. Nuclear Physics B, 1973, 51, 309-316.	0.9	0
158	Covariant Harmonic Oscillators and the Quark Model. Physical Review D, 1973, 8, 3521-3527.	1.6	103