

# Maria Richetta

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/338507/publications.pdf>

Version: 2024-02-01

160  
papers

1,631  
citations

304602

22  
h-index

434063

31  
g-index

160  
all docs

160  
docs citations

160  
times ranked

1478  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Further Investigation Toward the Design of Topology Optimized Solid-Lattice Hybrid Structures for Biomedical Applications. Lecture Notes in Mechanical Engineering, 2022, , 514-523.	0.3	1
2	Residual stresses in the graded interlayer between W and CuCrZr alloy. Journal of Materials Science, 2022, 57, 285-298.	1.7	2
3	Grain Orientation and Hardness in the Graded Interlayer of Plasma Sprayed W on CuCrZr. Applied Sciences (Switzerland), 2022, 12, 1822.	1.3	1
4	Plasma Carburizing of Laser Powder Bed Fusion Manufactured 316 L Steel for Enhancing the Surface Hardness. Coatings, 2022, 12, 258.	1.2	8
5	A Focus on Dynamic Modulus: Effects of External and Internal Morphological Features. Metals, 2021, 11, 40.	1.0	4
6	Layered Double Hydroxides (LDHs). Crystals, 2020, 10, 1121.	1.0	8
7	La distribution on the crater surface of Wâ€La <sub>2</sub> O <sub>3</sub> produced by a single laser pulse. Surface and Interface Analysis, 2020, 52, 1093-1097.	0.8	1
8	Surface Morphological Features of Molybdenum Irradiated by a Single Laser Pulse. Coatings, 2020, 10, 67.	1.2	10
9	Adsorption of heavy metals by layered double hydroxides grown in situ on Al foam. Surface and Interface Analysis, 2020, 52, 996-999.	0.8	2
10	Effect of Al substrate microstructure on layered double hydroxide morphology. Journal of Materials Science, 2019, 54, 12437-12449.	1.7	1
11	A Further Analysis on Ti6Al4V Lattice Structures Manufactured by Selective Laser Melting. Journal of Healthcare Engineering, 2019, 2019, 1-9.	1.1	42
12	X-ray imaging of bio/medical samples using laser-plasma-based X-ray sources and LiF detector. Journal of Instrumentation, 2019, 14, C10006-C10006.	0.5	2
13	AA7050 Al Alloy Hot-Forging Process for Improved Fracture Toughness Properties. Metals, 2019, 9, 64.	1.0	13
14	Fusion Exhaust Gas Separation with a Carbon Molecular Sieve (CMS) Membrane. InterCeram: International Ceramic Review, 2019, 68, 14-17.	0.2	2
15	Alloys for Aeronautic Applications: State of the Art and Perspectives. Metals, 2019, 9, 662.	1.0	128
16	Plasma enhancement gases (PEGs) separation using a carbon molecular sieve (CMS) membrane. Fusion Engineering and Design, 2019, 146, 2438-2441.	1.0	1
17	Low pressure fusion exhaust gases separation. Fusion Engineering and Design, 2019, 146, 1665-1669.	1.0	1
18	Metal Posts and the Effect of Materialâ€Shape Combination on the Mechanical Behavior of Endodontically Treated Anterior Teeth. Metals, 2019, 9, 125.	1.0	6

#	ARTICLE	IF	CITATIONS
19	Surface phenomena during the early stage of liquid phase SPS of a mixture of coarse WC and Ni alloy particles. Surface and Interface Analysis, 2018, 50, 1072-1076.	0.8	0
20	Oxidative treatment effect on TiH <sub>2</sub> powders. Surface and Interface Analysis, 2018, 50, 1195-1199.	0.8	4
21	Ionic conductivity of Zn Al layered double hydroxide films grown on aluminum substrate. Solid State Ionics, 2018, 314, 30-35.	1.3	9
22	X-ray absorption radiography for high pressure shock wave studies. Journal of Instrumentation, 2018, 13, C01013-C01013.	0.5	3
23	Ceramic Membranes for the Separation of Plasma Enhancement Gases. InterCeram: International Ceramic Review, 2018, 67, 8-13.	0.2	3
24	W-1% La <sub>2</sub> O <sub>3</sub> Submitted to a Single Laser Pulse: Effect of Particles on Heat Transfer and Surface Morphology. Metals, 2018, 8, 389.	1.0	7
25	Novel Methodology for the Selection, Dosing and On-Line Control of Corrosion Inhibitors for Industrial Acid Pickling. Materials Science Forum, 2018, 941, 1698-1704.	0.3	1
26	Analyte Tracking for Novel Bio-Applications. Materials Science Forum, 2018, 941, 2454-2457.	0.3	0
27	Monitoring of Cytotoxic Induced Cellular Displacements by Utilizing Electronic Speckle Pattern Interferometry. Materials Science Forum, 2018, 941, 2513-2517.	0.3	0
28	Temperature Dependent Mechanical Behavior of ODS Steels. Materials Science Forum, 2018, 941, 257-262.	0.3	2
29	An Innovative Industrial Process for Forging 7050 Al Alloy. Materials Science Forum, 2018, 941, 1047-1052.	0.3	4
30	Hydrogen Release from Oxidized Titanium Hydride. Materials Science Forum, 2018, 941, 2203-2208.	0.3	4
31	Portable System for the Measure of Efficiency in Arc Welding Processes. Materials Science Forum, 2018, 941, 2384-2389.	0.3	0
32	Analysis of Strengthening Mechanisms in Nano-ODS Steel Depending on Preparation Route. Journal of Material Science & Engineering, 2018, 07, .	0.2	5
33	Experimental Real-Time Tracking and Numerical Simulation of Hazardous Dust Dispersion in the Atmosphere. , 2018, , 41-48.		0
34	Conceptual study for long-term monitoring of chemotherapeutic induced cell reactions by ESPI. TM Technisches Messen, 2018, 85, 111-118.	0.3	0
35	Layered Double Hydroxides Containing an Ionic Liquid: Ionic Conductivity and Use in Composite Anion Exchange Membranes. ChemElectroChem, 2018, 5, 2781-2788.	1.7	26
36	Microporous Inorganic Membranes for Gas Separation and Purification. InterCeram: International Ceramic Review, 2018, 67, 16-21.	0.2	12

#	ARTICLE	IF	CITATIONS
37	Preparation, intercalation, and characterization of nanostructured (Zn, Al) layered double hydroxides (LDHs). <i>Surface and Interface Analysis</i> , 2018, 50, 1094-1098.	0.8	8
38	Continuous dynamic recrystallization (CDRX) model for aluminum alloys. <i>Journal of Materials Science</i> , 2018, 53, 4563-4573.	1.7	50
39	Metallurgical design of micro-alloyed high strength steels for forgings. <i>Metallurgical Research and Technology</i> , 2017, 114, 601.	0.4	1
40	Laser-driven shock waves studied by x-ray radiography. <i>Physical Review E</i> , 2017, 95, 063205.	0.8	22
41	Electron Beam Welding of IN792 DS: Effects of Pass Speed and PWHT on Microstructure and Hardness. <i>Materials</i> , 2017, 10, 1033.	1.3	19
42	Flat-Top Cylinder Indenter Examination of Duplex Stainless Steel 2205 after Different Heat Treatments. <i>Metals</i> , 2017, 7, 178.	1.0	2
43	Analysis of Relaxation Processes in HNS Due to Interstitial-Substitutional Pairs. <i>Metals</i> , 2017, 7, 246.	1.0	3
44	Mechanical Characterization of a Nano-ODS Steel Prepared by Low-Energy Mechanical Alloying. <i>Metals</i> , 2017, 7, 283.	1.0	19
45	Study of 13Cr-4Ni-(Mo) (F6NM) Steel Grade Heat Treatment for Maximum Hardness Control in Industrial Heats. <i>Metals</i> , 2017, 7, 351.	1.0	9
46	Sensitivity to Heavy-Metal Ions of Unfolded Fullerene Quantum Dots. <i>Sensors</i> , 2017, 17, 2614.	2.1	43
47	Laser Pulse Effects on Plasma-Sprayed and Bulk Tungsten. <i>Metals</i> , 2017, 7, 454.	1.0	14
48	EVALUATION OF THE METALLURGICAL PARAMETERS EFFECT ON TENSILE PROPERTIES IN AUSTENITIC STAINLESS STEELS. <i>Acta Metallurgica Slovaca</i> , 2017, 23, 111-121.	0.3	1
49	EFFECT OF MICRO-ALLOYING ON QUENCHING BEHAVIOUR OF STEELS FOR BACK-UP ROLLS. <i>Acta Metallurgica Slovaca</i> , 2017, 23, 105-110.	0.3	2
50	Evaluation of Structural Stability of Materials through Mechanical Spectroscopy: Four Case Studies. <i>Metals</i> , 2016, 6, 306.	1.0	3
51	Surface spectroscopy and structural analysis of nanostructured multifunctional (Zn, Al) layered double hydroxides. <i>Surface and Interface Analysis</i> , 2016, 48, 514-518.	0.8	31
52	A Novel Facility to Investigate Dust Mobilization in Confined Environments with Applications to the Security of the Pharmaceutical Industry. <i>Materials Science Forum</i> , 2016, 879, 1213-1219.	0.3	2
53	Novel ESPI Measurement Prototype for Analyzing Biological Samples from Cell Culture Technique. <i>Materials Science Forum</i> , 2016, 879, 1859-1864.	0.3	0
54	Experimental Bio-ESPI for Validation of Magnetic Induced Deformation on HeLa Cells. <i>Materials Science Forum</i> , 2016, 879, 1141-1146.	0.3	0

#	ARTICLE	IF	CITATIONS
55	Image computing techniques to extrapolate data for dust tracking in case of an experimental accident simulation in a nuclear fusion plant. Review of Scientific Instruments, 2016, 87, 013504.	0.6	8
56	Miniaturized Laser Power Sensor via Rapid Prototyping. Materials Science Forum, 2016, 879, 1721-1724.	0.3	0
57	The Use of Vibrotactile Stimulation for Improving Manual Tasks in Parkinson's Disease Patients. Materials Science Forum, 2016, 879, 2348-2351.	0.3	0
58	Real-time vehicle emissions monitoring using a compact LiDAR system and conventional instruments: first results of an experimental campaign in a suburban area in southern Italy. Optical Engineering, 2016, 55, 103107.	0.5	16
59	Study of shock waves generation, hot electron production and role of parametric instabilities in an intensity regime relevant for the shock ignition. Journal of Physics: Conference Series, 2016, 688, 012003.	0.3	1
60	X-ray High-resolution Spectroscopy for Laser-produced Plasma. Physics Procedia, 2015, 62, 84-91.	1.2	4
61	Detection and monitoring of pollutant sources with Lidar/Dial techniques. Journal of Physics: Conference Series, 2015, 658, 012004.	0.3	10
62	Shadowgraph Technique Applied to STARDUST Facility for Dust Tracking: First Results. Physics Procedia, 2015, 62, 97-101.	1.2	6
63	Simulations and Experiments to Reach Numerical Multiphase Informations for Security Analysis on Large Volume Vacuum Systems Like Tokamaks. Journal of Fusion Energy, 2015, 34, 959-978.	0.5	12
64	Contact X-ray microscopy of living cells by using LiF crystal as imaging detector. Journal of Microscopy, 2015, 258, 127-139.	0.8	16
65	Design of a new experimental facility to reproduce LOVA and LOCA consequences on dust resuspension. Fusion Engineering and Design, 2015, 98-99, 2191-2195.	1.0	10
66	Experiment on laser interaction with a planar target for conditions relevant to shock ignition. Physica Scripta, 2014, T161, 014017.	1.2	2
67	Morphology of Zn/Al layered double hydroxide nanosheets grown onto aluminum thin films. Microelectronic Engineering, 2014, 126, 129-133.	1.1	49
68	Safety Analysis in Large Volume Vacuum Systems Like Tokamak: Experiments and Numerical Simulation to Analyze Vacuum Ruptures Consequences. Advances in Materials Science and Engineering, 2014, 2014, 1-29.	1.0	12
69	Automatic localization of backscattering events due to particulate in urban areas. Proceedings of SPIE, 2014, , .	0.8	4
70	Numerical study of air jet flow field during a loss of vacuum. Fusion Engineering and Design, 2014, 89, 2048-2052.	1.0	18
71	UMEL: A new regression tool to identify measurement peaks in LIDAR/DIAL systems for environmental physics applications. Review of Scientific Instruments, 2014, 85, 063112.	0.6	17
72	Generation of high pressure shocks relevant to the shock-ignition intensity regime. Physics of Plasmas, 2014, 21, .	0.7	55

#	ARTICLE	IF	CITATIONS
73	Detection of pollutant sources in the atmosphere with Lidar/Dial techniques: Results of an experimental campaign in the south of Italy. , 2014, , .		0
74	Dust tracking techniques applied to the STARDUST facility: First results. Fusion Engineering and Design, 2014, 89, 2098-2102.	1.0	16
75	Large eddy simulation of Loss of Vacuum Accident in STARDUST facility. Fusion Engineering and Design, 2013, 88, 2665-2668.	1.0	17
76	First electrons from the new 220TW Frascati Laser for Acceleration and Multidisciplinary Experiments (FLAME) at Frascati National Laboratories (LNF). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 720, 95-99.	0.7	5
77	Recent results from experimental studies on laserâ€“plasma coupling in a shock ignition relevant regime. Plasma Physics and Controlled Fusion, 2013, 55, 124045.	0.9	30
78	Design and development of a compact lidar/DIAL system for aerial surveillance of urban areas. , 2013, , .		8
79	Preliminary results from recent experiments and future roadmap to Shock Ignition of Fusion Targets. Journal of Physics: Conference Series, 2012, 399, 012005.	0.3	8
80	Preliminary results of a lidar-dial integrated system for the automatic detection of atmospheric pollutants. Proceedings of SPIE, 2012, , .	0.8	5
81	Magnetically Guided Fast Electrons in Cylindrically Compressed Matter. Physical Review Letters, 2011, 107, 065004.	2.9	45
82	The HiPER project for inertial confinement fusion and some experimental results on advanced ignition schemes. Plasma Physics and Controlled Fusion, 2011, 53, 124041.	0.9	18
83	Proton radiography of laser-driven imploding target in cylindrical geometry. Physics of Plasmas, 2011, 18, 012704.	0.7	30
84	Validation of a loss of vacuum accident (LOVA) Computational Fluid Dynamics (CFD) model. Fusion Engineering and Design, 2011, 86, 2774-2778.	1.0	13
85	Can proton radiography be used to image imploding target in ICF experiments?. , 2011, , .		0
86	Experimental results performed in the framework of the HIPER European Project. , 2011, , .		0
87	Investigation of laser plasmas relevant to shock ignition at PALS. Proceedings of SPIE, 2011, , .	0.8	1
88	Experimental study of fast electron propagation in compressed matter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 653, 176-180.	0.7	6
89	Loss of vacuum accident (LOVA): Comparison of computational fluid dynamics (CFD) flow velocities against experimental data for the model validation. Fusion Engineering and Design, 2011, 86, 330-340.	1.0	27
90	Proton radiography of cylindrical laser-driven implosions. Plasma Physics and Controlled Fusion, 2011, 53, 032003.	0.9	9

#	ARTICLE	IF	CITATIONS
91	STARDUST experimental campaign and numerical simulations: influence of obstacles and temperature on dust resuspension in a vacuum vessel under LOVA. Nuclear Fusion, 2011, 51, 053017.	1.6	28
92	First open field measurements with a portable CO <sub>2</sub> lidar/dial system for early forest fires detection. Proceedings of SPIE, 2011, , .	0.8	4
93	Spectroscopy Methods and Applications of the Tor Vergata Laser-Plasma Facility Driven by GW-Level Laser System. International Journal of Spectroscopy, 2011, 2011, 1-28.	1.4	7
94	Laser-driven cylindrical compression of targets for fast electron transport study in warm and dense plasmas. Physics of Plasmas, 2011, 18, 043108.	0.7	16
95	X-ray diagnostics of fast electrons propagation in high density plasmas obtained by cylindrical compression. Journal of Physics: Conference Series, 2010, 244, 022027.	0.3	1
96	BLISS@CNR-Pisa: a flexible laser for small scale test experiments on fusion oriented physics. , 2010, , .		2
97	Proton Radiography of a Laser-Driven Cylindrical Implosion. AIP Conference Proceedings, 2010, , .	0.3	1
98	Lithium fluoride thin-film detectors for soft X-ray imaging at high spatial resolution. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 623, 758-762.	0.7	10
99	In-cell measurements of smoke backscattering coefficients using a CO <sub>2</sub> laser system for application to lidar-dial forest fire detection. Optical Engineering, 2010, 49, 124302.	0.5	13
100	Planetary boundary layer (PBL) monitoring by means of two laser radar systems: experimental results and comparison. , 2010, , .		4
101	Characterization of LiF-based soft X-ray imaging detectors by confocal fluorescence microscopy. IOP Conference Series: Materials Science and Engineering, 2010, 15, 012025.	0.3	2
102	Proton Radiography and Fast Electron Propagation Through Cylindrically Compressed Targets. Journal of the Korean Physical Society, 2010, 57, 305-310.	0.3	1
103	Proton Radiography of a Cylindrical Laser-Driven Implosion. , 2009, , .		0
104	Raman water vapour concentration measurements for reduction of false alarms in forest fire detection. Proceedings of SPIE, 2009, , .	0.8	7
105	Fast-electron transport in cylindrically laser-compressed matter. Plasma Physics and Controlled Fusion, 2009, 51, 124035.	0.9	24
106	Reduction of false alarms in forest fire surveillance using water vapour concentration measurements. Optics and Laser Technology, 2009, 41, 374-379.	2.2	18
107	High-resolution water window X-ray imaging of in vivo cells and their products using LiF crystal detectors. Microscopy Research and Technique, 2008, 71, 35-41.	1.2	25
108	X-ray microscopy of plant cells by using LiF crystal as a detector. Microscopy Research and Technique, 2008, 71, 839-848.	1.2	10

#	ARTICLE	IF	CITATIONS
109	SNOM images of X-ray radiographs at nano-scale stored in a thin layer of lithium fluoride. Journal of Microscopy, 2008, 229, 490-495.	0.8	5
110	Database for chemical weapons detection: first results. , 2008, , .		2
111	Evolution study of smoke backscattering coefficients in a cell by means of a compact mobile Nd:YAG lidar system. Proceedings of SPIE, 2007, , .	0.8	4
112	Application of a CO2 dial system for infrared detection of forest fire and reduction of false alarm. Applied Physics B: Lasers and Optics, 2007, 87, 373-378.	1.1	27
113	Water vapour emission in vegetable fuel: absorption cell measurements and detection limits of our CO 2 Dial system. , 2006, , .		1
114	Soft x-ray generation by a tabletop Nd:YAG/glass laser system. Journal of Physics Condensed Matter, 2006, 18, S2039-S2044.	0.7	9
115	Early detection of small forest fire by dial technique. , 2005, , .		7
116	Active clipping system for transversely exited CO2 lasers. Review of Scientific Instruments, 2005, 76, 026115.	0.6	6
117	Comparison of columnar water vapour measurements using the CO 2 DIAL method and GPS data analysis. , 2004, , .		2
118	Clipping the tail of a TE-CO2 laser pulse using a gas breakdown technique for high resolution chemical plume detection. Review of Scientific Instruments, 2003, 74, 1064-1069.	0.6	11
119	Evolution study of a water vapor plume using a mobile CO 2 DIAL system. , 2002, 4539, 180.		5
120	<title>TE-CO2 injection laser: status and perspectives</title>. , 1998, 3433, 165.		0
121	Fourier expansions and multivariable Bessel functions concerning radiation problems. Radiation Physics and Chemistry, 1996, 47, 183-189.	1.4	8
122	Advances on the theory of generalized Bessel functions and applications to multiphoton processes. Journal of Scientific Computing, 1993, 8, 69-109.	1.1	9
123	Graf-type theorem for Laguerre and Legendre functions. Computers and Mathematics With Applications, 1993, 25, 99-105.	1.4	2
124	Bismuth induced enhancement of the second-harmonic generation efficiency in bismuth-substituted yttrium iron garnet films. Applied Physics Letters, 1993, 63, 3402-3404.	1.5	25
125	Small-signal theory of pulse propagation in free-electron lasers. Physical Review A, 1992, 45, 4064-4076.	1.0	3
126	Linear undulator brightness: Inclusion of sextupolar magnetic-field contributions and of higher-order energy corrections. Physical Review A, 1992, 45, 4023-4035.	1.0	32



#	ARTICLE	IF	CITATIONS
127	Linear undulator brightness: Exact analytical treatment. Journal of Mathematical Physics, 1992, 33, 1200-1207.	0.5	4
128	Generating functions of multivariable generalized Bessel functions and Jacobiâ€”elliptic functions. Journal of Mathematical Physics, 1992, 33, 25-36.	0.5	27
129	Formal quantum theory of electronic rays. Optics Communications, 1992, 87, 175-180.	1.0	10
130	Linear undular brightness: Sextupolar magnetic-field contributions and higher-orders energy corrections for low-energy electron beams. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1992, 107, 1135-1142.	0.2	5
131	Twiss parameters and evolution of quantum harmonic-oscillator states. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1992, 107, 1151-1165.	0.2	4
132	On the generalized Twiss parameters and Courant-Snyder invariant in classical and quantum optics. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1992, 107, 269-287.	0.2	10
133	Towards a wave theory of charged-beam propagation. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1992, 14, 271-278.	0.4	0
134	A perturbative analysis of the Kapchinskij-Vladimirskij problem in the emittance-dominanted regime. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1991, 106, 697-700.	0.2	1
135	A note on the theory ofn-variable generalized bessel functions. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1991, 106, 1159-1166.	0.2	11
136	Biunitary transformations and ordinary differential equations.â€”I. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1991, 106, 1357-1374.	0.2	7
137	Biunitary transformations and ordinary differential equations.â€”II. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1991, 106, 1375-1390.	0.2	5
138	Biunitary transformations and ordinary differential equations.â€”III. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1991, 106, 1391-1399.	0.2	2
139	The 3-D FEL pulse propagation equation: An analytical treatment in the low-gain and small-signal regime. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1991, 13, 615-632.	0.4	1
140	A simple treatment of the FEL pulse-propagation problem with the inclusion of transverse-mode dynamics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 296, 322-334.	0.7	4
141	Lie algebraic methods and solutions of linear partial differential equations. Journal of Mathematical Physics, 1990, 31, 2856-2863.	0.5	23
142	FEL gain in the pulsed regime: a comparison between numerical and analytical results. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1990, 12, 21-34.	0.4	4
143	The Cayley-Klein parameters and geometrical picture of the multilevel system evolution. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1989, 104, 665-683.	0.2	6
144	Parametrizing the gain dependences in a single passage FEL operating with moderate current e-beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 285, 108-114.	0.7	16

#	ARTICLE	IF	CITATIONS
145	Free-electron laser operation in the intermediate gain region. IEEE Journal of Quantum Electronics, 1989, 25, 2327-2331.	1.0	10
146	Miscellaneous results on infinite series of bessel functions. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1989, 103, 149-159.	0.2	2
147	Supermode biorthogonality in free-electron lasers: A physical interpretation. Societa Italiana Di Fisica Nuovo Cimento B-General Physics, Relativity Astronomy and Mathematical Physics and Methods, 1988, 101, 585-593.	0.2	5
148	Evolution of SU(2) and SU(1,1) states: A further mathematical analysis. Journal of Mathematical Physics, 1988, 29, 2586-2588.	0.5	14
149	Operator disentanglement. Physical Review A, 1988, 37, 2007-2011.	1.0	30
150	Quantum coherence properties of the FEL. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1985, 237, 93-99.	0.7	7
151	Quantum statistical properties of an FEL amplifier. IEEE Journal of Quantum Electronics, 1985, 21, 1069-1072.	1.0	8
152	Analysis of the harmonic Raman-Nath equation. Journal of Physics A, 1984, 17, 1333-1342.	1.6	16
153	Comments on the solution of the spherical Raman-Nath equation. Journal of Physics A, 1984, 17, L395-L398.	1.6	7
154	FEL quantum theory: Comments on Glauber coherence, antibunching and squeezing. Optics Communications, 1984, 50, 165-168.	1.0	16
155	Recursive differential equations of the raman-nath type: A general review. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1984, 4, 293-311.	0.4	9
156	Laser Pulse Simulation of High Energy Transient Thermal Loads on Bulk and Plasma Sprayed W for NFR. Materials Science Forum, 0, 879, 1576-1581.	0.3	7
157	Laser Beam Welding of IN792 DS Superalloy. Materials Science Forum, 0, 941, 1149-1154.	0.3	3
158	Increasing the Electrical Conductivity of Layered Double Hydroxides by Intercalation of Ionic Liquids. Materials Science Forum, 0, 941, 2209-2213.	0.3	4
159	Development of a Smartphone Based Reader for the Quantitative Analysis of Lateral Flow Assays. Materials Science Forum, 0, 941, 2522-2527.	0.3	2
160	Surface Morphology of Refractory Metals Submitted to a Single Laser Pulse. Materials Science Forum, 0, 1016, 1526-1531.	0.3	0