Antonio Serra

List of Publications by Year
in descending order

139 papers	3,332 citations	136885 32 h-index	182361 51 g-index
140 all docs	140 docs citations	140 times ranked	4613 citing authors

#	Article	IF	Citations
1	Diagnostic investigation to support the restoration of the polychrome terracotta relief â€œMadonna and Childâ€•in Piove di Sacco (Padova, Italy). Journal of Cultural Heritage, 2022, 53, 80-87.	1.5	2
2	Hydrogen peroxide LSPR sensing with unoxidised CuNPs-TweenÂ® 60. Journal of Materials Science, 2022, 57, 1714.	1.7	0
3	Graphene oxide modifications induced by excimer laser irradiations. Surface and Interface Analysis, 2022, 54, 567-575.	0.8	1
4	Green Silver Nanoparticles Promote Inflammation Shutdown in Human Leukemic Monocytes. Materials, 2022, 15, 775.	1.3	7
5	Solid Lipid Nanoparticles Administering Antioxidant Grape Seed-Derived Polyphenol Compounds: A Potential Application in Aquaculture. Molecules, 2022, 27, 344.	1.7	9
6	Non-Destructive In Situ Investigation of the Study of a Medieval Copper Alloy Door in Canosa di Puglia (Southern Italy). Heritage, 2022, 5, 145-156.	0.9	1
7	Tailoring sheet resistance through laser fluence and study of the critical impact of a V-shaped plasma plume on the properties of PLD-deposited DLC films for micro-pattern gaseous detector applications. Diamond and Related Materials, 2022, 124, 108909.	1.8	3
8	Thermal neutron conversion by high purity 10B-enriched layers: PLD-growth, thickness-dependence and neutron-detection performances. European Physical Journal Plus, 2022, 137, 1.	1.2	2
9	From GO to rGO: An analysis of the progressive rippling induced by energetic ion irradiation. Applied Surface Science, 2022, 586, 152789.	3.1	14
10	Proton beam dosimetry based on the graphene oxide reduction and Raman spectroscopy. Vacuum, 2022, 201, 111113.	1.6	5
11	Pulsed-laser deposition and photocatalytic activity of pure rutile and anatase TiO2 films: Impact of single-phased target and deposition conditions. Vacuum, 2022, 202, 111150.	1.6	3
12	Synthesis and doping of TiO2 thin films via a new type of laser plasma source. Vacuum, 2021, 184, 109890.	1.6	8
13	Chemotrophic profiling of prokaryotic communities thriving on organic and mineral nutrients in a submerged coastal cave. Science of the Total Environment, 2021, 755, 142514.	3.9	7
14	Structural and spectroscopic investigations on graphene oxide foils irradiated by ion beams for dosimetry application. Vacuum, 2021, 188, 110185.	1.6	20
15	Surface architecture of Neisseria meningitidis capsule and outer membrane as revealed by atomic force microscopy. Research in Microbiology, 2021, 172, 103865.	1.0	0
16	Essential Oil-Loaded NLC for Potential Intranasal Administration. Pharmaceutics, 2021, 13, 1166.	2.0	13
17	Influence of Rogowski coil structure for sub-ns current pulses. Review of Scientific Instruments, 2021, 92, 073303.	0.6	3
18	Structural phase modifications induced by energetic ion beams in graphene oxide. Vacuum, 2021, 193, 110513.	1.6	7

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19	Archaeometric analysis of patinas of the outdoor copper statue Sant'Oronzo (Lecce, Italy) preparatory to the restoration. Microchemical Journal, 2020, 154, 104538.	2.3	3
20	Characterisation of lead carbonate white pigments submitted to AMS radiocarbon dating. Journal of Cultural Heritage, 2020, 46, 102-107.	1.5	11
21	Enhanced adsorption capacity of porous titanium dioxide nanoparticles synthetized in alkaline sol. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	15
22	Plasmonic Light Trapping in Titaniaâ€“Silver Dots Thin Films. Physica Status Solidi (B): Basic Research, 2020, 257, 2070035.	0.7	0
23	Investigations of byzantine wall paintings in the abbey of Santa Maria di Cerrate (Italy) in view of their restoration. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 239, 118557.	2.0	12
24	Ferulic Acid-NLC with Lavandula Essential Oil: A Possible Strategy for Wound-Healing?. Nanomaterials, 2020, 10, 898.	1.9	30
25	Nickel doped TiO2 films by a modified laser plasma source for photocatalytic applications. Journal of Instrumentation, 2020, 15, C03039-C03039.	0.5	1
26	Plasmonic Light Trapping in Titaniaâ€“Silver Dots Thin Films. Physica Status Solidi (B): Basic Research, 2020, 257, 2000124.	0.7	0
27	Effect of temperature on the physical, optical and photocatalytic properties of TiO2 nanoparticles. SN Applied Sciences, 2020, 2, 1.	1.5	16
28	Investigations on graphene oxide for ion beam dosimetry applications. Vacuum, 2020, 178, 109451.	1.6	22
29	Diamond-Like Carbon for the Fast Timing MPGD. Journal of Physics: Conference Series, 2020, 1498, 012015.	0.3	4
30	TiO 2 films by solâ€gel spinâ€coating deposition with microbial antiadhesion properties. Surface and Interface Analysis, 2019, 51, 1351-1358.	0.8	6
31	The synergistic role of pH and calcination temperature in solâ€“gel titanium dioxide powders. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	12
32	Wavelength, fluence and substrate-dependent room temperature pulsed laser deposited B-enriched thick films. Applied Surface Science, 2019, 483, 1044-1051.	3.1	5
33	A silver nanoparticle-poly(methyl methacrylate) based colorimetric sensor for the detection of hydrogen peroxide. Heliyon, 2019, 5, e02887.	1.4	19
34	Photochromic properties in silver-doped titania nanoparticles. Materials Research Express, 2019, 6, 036206.	0.8	3
35	Highly sensitive conformational switching of ethane-bridged mono-zinc bis-porphyrin as an application tool for rapid monitoring of aqueous ammonia and acetone. Sensors and Actuators B: Chemical, 2018, 257, 685-691.	4.0	5
36	Colloidal solution of silver nanoparticles for label-free colorimetric sensing of ammonia in aqueous solutions. Beilstein Journal of Nanotechnology, 2018, 9, 499-507.	1.5	17

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37	The tale of Henry VII: a multidisciplinary approach to determining the post-mortem practice. Archaeological and Anthropological Sciences, 2017, 9, 1215-1222.	0.7	3
38	Enhanced electrical conductivity of collagen films through long-range aligned iron oxide nanoparticles. Journal of Colloid and Interface Science, 2017, 501, 185-191.	5.0	40
39	A simple approach to synthetize folic acid decorated magnetite@SiO₂ nanostructures for hyperthermia applications. Journal of Materials Chemistry B, 2017, 5, 7547-7556.	2.9	16
40	Design and Synthesis of Ironâ€Doped Nanostructured TiO₂ and Its Potential Use in the Photodegration of Hazardous Materials Present in Personal Care Products. ChemistrySelect, 2017, 2, 5095-5099.	0.7	3
41	Synthesis and Characterization of Mixed Iron-Manganese Oxide Nanoparticles and Their Application for Efficient Nickel Ion Removal from Aqueous Samples. Journal of Analytical Methods in Chemistry, 2017, 2017, 1-9.	0.7	15
42	Innovative hybrid vs polymeric nanocapsules: The influence of the cationic lipid coating on the â€œ4Sâ€• Colloids and Surfaces B: Biointerfaces, 2016, 141, 450-457.	2.5	28
43	Niosomes as Drug Nanovectors: Multiscale pH-Dependent Structural Response. Langmuir, 2016, 32, 1241-1249.	1.6	42
44	Glucose capped silver nanoparticles enter HeLa cells and induce S and G2/M arrest. , 2015, , .		1
45	Promising Piezoelectric Properties of New ZnO@Octadecylamine Adduct. Journal of Physical Chemistry C, 2015, 119, 20143-20149.	1.5	27
46	Nondestructive Analysis of Silver Coins Minted in Taras (South Italy) between the V and the III Centuries BC. Journal of Archaeology, 2014, 2014, 1-12.	0.5	6
47	Solid-to-solid phase transformations of nanostructured selenium-tin thin films induced by thermal annealing in oxygen atmosphere. , 2014, , .		11
48	Cytotoxicity of Î²-D-glucose coated silver nanoparticles on human lymphocytes. AIP Conference Proceedings, 2014, , .	0.3	13
49	The critical role of didodecyldimethylammonium bromide on physico-chemical, technological and biological properties of NLC. Colloids and Surfaces B: Biointerfaces, 2014, 121, 1-10.	2.5	35
50	Green synthesis of sucralose-capped silver nanoparticles for fast colorimetric triethylamine detection. Sensors and Actuators B: Chemical, 2013, 178, 1-9.	4.0	88
51	Controlled synthesis and chain-like self-assembly of silver nanoparticles through tertiary amine. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 417, 10-17.	2.3	14
52	Silver and carbon nanoparticles toxicity in sea urchin Paracentrotus lividus embryos. BioNanoMaterials, 2013, 14, .	1.4	13
53	Magnetostatic Field System for Uniform Cell Cultures Exposure. PLoS ONE, 2013, 8, e72341.	1.1	5
54	High ordered biomineralization induced by carbon nanoparticles in the sea urchinParacentrotus lividus. Nanotechnology, 2012, 23, 495104.	1.3	14

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55	Synthesis and growth mechanism of dendritic Cu2â^'xSe microstructures. Journal of Alloys and Compounds, 2012, 538, 8-10.	2.8	34
56	Role of the Cellular Prion Protein in the Neuron Adaptation Strategy to Copper Deficiency. Cellular and Molecular Neurobiology, 2012, 32, 989-1001.	1.7	13
57	Photofunctional multilayer films by assembling naked silver nanoparticles and a tailored nitric oxide photodispenser at water/air interface. Journal of Colloid and Interface Science, 2012, 368, 191-196.	5.0	15
58	Nanographite assembled films for sensitive NO2 detection. Sensors and Actuators B: Chemical, 2012, 161, 359-365.	4.0	9
59	Stress response induced by carbon nanoparticles in Paracentrotus lividus. International Journal of Molecular and Cellular Medicine, 2012, 1, 30-8.	1.1	9
60	Characterization of Composite Phthalocyanineâ€“Fatty Acid Films from the Air/Water Interface to Solid Supports. Journal of Physical Chemistry B, 2011, 115, 14956-14962.	1.2	3
61	Single step synthesis of SnO2â€“SiO2 coreâ€“shell microcables. Journal of Crystal Growth, 2011, 330, 22-29.	0.7	5
62	Synthesis and in vitro Cytotoxicity of Glycans-Capped Silver Nanoparticles. Nanomaterials and Nanotechnology, 2011, 1, 10.	1.2	14
63	Nanoclustering in Silicon Induced by Oxygen Ions Implanted. Nanomaterials and Nanotechnology, 2011, 1, 16.	1.2	0
64	Optical, morphological and structural characterization of Langmuirâ€“Schaefer films of a functionalized copper phthalocyanine. Journal of Colloid and Interface Science, 2011, 363, 199-205.	5.0	6
65	Electronic properties of individual and assembled homotype SWCNT bundles. Chemical Physics Letters, 2011, 509, 152-157.	1.2	3
66	Aligned selenium microtubes array: Synthesis, growth mechanism and photoelectrical properties. Chemical Physics Letters, 2011, 510, 87-92.	1.2	5
67	SERS based optical sensor to detect prion protein in neurodegenerate living cells. Sensors and Actuators B: Chemical, 2011, 156, 479-485.	4.0	16
68	Aligning Singleâ€Walled Carbon Nanotubes By Means Of Langmuirâ€“Blodgett Film Deposition: Optical, Morphological, and Photoâ€electrochemical Studies. Advanced Functional Materials, 2010, 20, 2481-2488.	7.8	70
69	Assembly of hybrid silverâ€“titania thin films for gas sensors. Sensors and Actuators B: Chemical, 2010, 145, 794-799.	4.0	11
70	Shape-dependent plasmon resonances of Ag nanostructures. Superlattices and Microstructures, 2010, 47, 66-71.	1.4	11
71	Unusual coin from the Parabita hoard: combined use of surface and micro-analytical techniques for its characterisation. Journal of Cultural Heritage, 2010, 11, 233-238.	1.5	3
72	Monitoring prion protein expression in complex biological samples by SERS for diagnostic applications. Nanotechnology, 2010, 21, 165502.	1.3	21

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73	Characterization and Growth Mechanism of Selenium Microtubes Synthesized by a Vapor Phase Deposition Route. Crystal Growth and Design, 2010, 10, 4890-4897.	1.4	32
74	Green synthesis of silver nanoparticles with sucrose and maltose: Morphological and structural characterization. Journal of Non-Crystalline Solids, 2010, 356, 344-350.	1.5	118
75	Poly(vinyl alcohol) capped silver nanoparticles as localized surface plasmon resonance-based hydrogen peroxide sensor. Sensors and Actuators B: Chemical, 2009, 138, 625-630.	4.0	167
76	Self-assembling of micro-patterned titanium oxide films for gas sensors. Sensors and Actuators B: Chemical, 2009, 140, 563-567.	4.0	9
77	Self-assembly and branching of sucrose stabilized silver nanoparticles by microwave assisted synthesis: From nanoparticles to branched nanowires structures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 348, 205-211.	2.3	20
78	Non-functionalized silver nanoparticles for a localized surface plasmon resonance-based glucose sensor. Nanotechnology, 2009, 20, 165501.	1.3	56
79	Self-Assembly of n-Diamond Nanocrystals Into Supercrystals. Crystal Growth and Design, 2009, 9, 1245-1249.	1.4	23
80	The influence of inulin addition on the morphological and structural properties of durum wheat pasta. International Journal of Food Science and Technology, 2009, 44, 2218-2224.	1.3	36
81	WO3 gas sensors prepared by thermal oxidization of tungsten. Sensors and Actuators B: Chemical, 2008, 133, 321-326.	4.0	175
82	A new amperometric nanostructured sensor for the analytical determination of hydrogen peroxide. Biosensors and Bioelectronics, 2008, 24, 1057-1063.	5.3	197
83	Atomic force acoustic microscopy characterization of nanostructured seleniumâ€“tin thin films. Superlattices and Microstructures, 2008, 44, 641-649.	1.4	35
84	Synthesis and characterization of starch-stabilized Ag nanostructures for sensors applications. Journal of Non-Crystalline Solids, 2008, 354, 5515-5520.	1.5	70
85	Photoconductivity of Packed Homotype Bundles Formed by Aligned Single-Walled Carbon Nanotubes. Nano Letters, 2008, 8, 968-971.	4.5	13
86	Thermally Stimulated Current Investigation of Copper Octaethylporphyrin Dimer Langmuirâ^'Blodgett Films. Langmuir, 2005, 21, 294-298.	1.6	5
87	Morphological, structural and electrical characterization of nanostructured vanadiumâ€“tin mixed oxide thin films. Journal of Non-Crystalline Solids, 2004, 341, 68-76.	1.5	10
88	Organization of single-walled nanotubes into macro-sized rectangularly shaped ribbons. Chemical Physics Letters, 2003, 381, 86-93.	1.2	18
89	Synthesis and Characterization of TiO2Nanocrystals Prepared fromn-Octadecylamineâ^'Titanyl Oxalate Langmuirâ^'Blodgett Films. Langmuir, 2003, 19, 3486-3492.	1.6	23
90	Modulation of charge transport in diamond-based layers. Journal of Applied Physics, 2003, 94, 416-422.	1.1	11

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91	Characterization of African dust over southern Italy. Atmospheric Chemistry and Physics, 2003, 3, 2147-2159.	1.9	81
92	Physical properties of sputtered molybdenum oxide thin films suitable for gas sensing applications. Journal Physics D: Applied Physics, 2002, 35, 228-233.	1.3	30
93	LB multilayers of highly conjugated porphyrin dimers: differentiation of properties and behaviour between the free base and the metallated derivatives. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 198-200, 897-904.	2.3	16
94	An efficient method for computing collective diffusion in a strongly interacting lattice gas. Surface Science, 2002, 515, 588-596.	0.8	12
95	Study of Gas Sensing Performances of Langmuirâ˜Blodgett Films Containinig an Alkyne-Linked Conjugated-Porphyrin Dimer. Langmuir, 2001, 17, 8139-8144.	1.6	22
96	Structural and electrical properties of In2O3/SeO2thin films for gas-sensing applications. Journal Physics D: Applied Physics, 2001, 34, 2097-2102.	1.3	33
97	Temperature-dependent conduction of W-containing composite diamond films. Applied Physics Letters, 2001, 79, 2007-2009.	1.5	6
98	Structural and electrical properties of In2O3â€“SeO2 mixed oxide thin films for gas sensing applications. Journal of Applied Physics, 2000, 88, 6571-6577.	1.1	35
99	Thermal deposition and characterisation of Inâ€“Se mixed oxides thin films for NO gas sensing applications. Sensors and Actuators B: Chemical, 1999, 58, 356-359.	4.0	8
100	Comparative optical and morphological investigation of meso,mesoâ€²-buta-1,3-diyne-bridged Cu(II) octaethyl porphyrin dimer Langmuirâ€“Blodgett films. Materials Science and Engineering C, 1999, 8-9, 107-111.	3.8	3
101	Gas sensing properties of meso,mesoâ€²-buta-1,3-diyne-bridged Cu(II) octaethylporphyrin dimer Langmuirâ€“Blodgett films. Sensors and Actuators B: Chemical, 1999, 57, 179-182.	4.0	12
102	Unusual electrical behavior of Nd-doped diamond films. Applied Physics Letters, 1999, 75, 379-381.	1.5	11
103	Sputter deposition of tungsten trioxide for gas sensing applications. Journal of Materials Science: Materials in Electronics, 1998, 9, 317-322.	1.1	19
104	Novel nitroso-compounds Langmuirâ€“Blodgett films. Thin Solid Films, 1998, 327-329, 136-140.	0.8	1
105	Gas-sensing properties of porphyrin dimer Langmuirâ€“Blodgett films. Thin Solid Films, 1998, 327-329, 341-344.	0.8	41
106	Physical Properties of Molybdenum Oxide Thin Films for NO Gas Detection. Physica Status Solidi A, 1998, 168, 249-256.	1.7	32
107	Physical and structural characterization of tungsten oxide thin films for NO gas detection. Thin Solid Films, 1998, 324, 44-51.	0.8	94
108	Langmuir-Blodgett films of a phthalocyanine symmetrically functionalized with eight ester units. Materials Science and Engineering C, 1998, 5, 317-320.	3.8	9

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109	Kinetic behavior analysis of porphyrin Langmuirâ€“Blodgett films for conductive gas sensors. Journal of Applied Physics, 1998, 84, 1416-1420.	1.1	44
110	Thermal deposition and characterization of Se-Sn mixed oxide thin films for NO gas sensing applications. Journal of Applied Physics, 1998, 83, 3541-3546.	1.1	22
111	Physical Properties of Molybdenum Oxide Thin Films for NO Gas Detection. Physica Status Solidi A, 1998, 168, 249-256.	1.7	2
112	Properties of vanadium oxide thin films for ethanol sensor. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1997, 15, 34-38.	0.9	76
113	Electrical properties of n-GaSe single crystals doped with chlorine. Journal of Applied Physics, 1997, 82, 2365-2369.	1.1	44
114	Gas-sensing properties of sputtered thin films of tungsten oxide. Journal Physics D: Applied Physics, 1997, 30, 3211-3215.	1.3	42
115	Structural and electrical properties of sputtered vanadium oxide thin films for applications as gas sensing material. Journal of Applied Physics, 1997, 81, 2709-2714.	1.1	56
116	Trapping centres in Cl-doped GaSe single crystals. Journal of Applied Physics, 1997, 81, 6200-6204.	1.1	11
117	Titanium oxide thin films for NH3 monitoring: Structural and physical characterizations. Journal of Applied Physics, 1997, 82, 54-59.	1.1	69
118	Porphyrin Dimers Linked by a Conjugated Alkyne Bridge:â€‰ Novel Moieties for the Growth of Langmuirâ€'Blodgett Films and Their Applications in Gas Sensors. Langmuir, 1997, 13, 5951-5956.	1.6	49
119	NO2 gas detection by Langmuir-Blodgett films of copper phthalocyanine multilayer structures. Supramolecular Science, 1997, 4, 461-464.	0.7	36
120	CO sensing properties of SnO2 thin films prepared by the sol-gel process. Thin Solid Films, 1997, 304, 339-343.	0.8	69
121	Tin oxide-based gas sensors prepared by the solâ€“gel process. Sensors and Actuators B: Chemical, 1997, 44, 462-467.	4.0	65
122	Langmuirâ€'Blodgett Multilayers Based on Copper Phthalocyanine as Gas Sensor Materials:Â Active Layerâ€'Gas Interaction Model and Conductivity Modulation. Langmuir, 1997, 13, 6562-6567.	1.6	80
123	Gas-sensing properties of multilayers of two new macrocyclic copper complexes. Sensors and Actuators B: Chemical, 1997, 44, 585-589.	4.0	8
124	Applications in gas-sensing devices of a new macrocyclic copper complex. Sensors and Actuators B: Chemical, 1997, 42, 53-58.	4.0	14
125	Impurity Levels in Sn-Doped GaSe Semiconductor. Physica Status Solidi A, 1997, 162, 649-659.	1.7	27
126	Pt:SnO2 thin films for gas sensor characterized by atomic force microscopy and x-ray photoemission spectromicroscopy. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 1527.	1.6	7

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127	CO sensing characteristics of reactively sputtered SnO2 thin films prepared under different oxygen partial pressure values. Vacuum, 1996, 47, 1175-1177.	1.6	28
128	C-nitroso compounds as novel promising substances for the deposition of Langmuir-Blodgett films. Thin Solid Films, 1996, 284-285, 69-72.	0.8	2
129	Characterization of novel copper phthalocyanine Langmuir-Blodgett films for NO2 detection. Thin Solid Films, 1996, 284-285, 870-872.	0.8	14
130	Effects of NO2 oxidizing gas on a novel phthalocyanine Langmuir-Blodgett thin film. Thin Solid Films, 1996, 286, 256-258.	0.8	38
131	Influence of the Deposition Parameters on the Physical Properties of Tin Oxide Thin Films. Materials Science Forum, 1996, 203, 143-148.	0.3	23
132	Characteristics of reactively sputtered Ptâ€“SnO2 thin films for CO gas sensors. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1996, 14, 2215-2219.	0.9	30
133	Morphological, chemical and electrical characterization of thin film grown on rough and mechanically polished substrates. Journal Physics D: Applied Physics, 1996, 29, 2235-2239.	1.3	13
134	SnO2 thin films for gas sensor prepared by r.f. reactive sputtering. Sensors and Actuators B: Chemical, 1995, 25, 465-468.	4.0	41
135	Bremsstrahlung spectrum of the 1000 MeV electronsynchrotron at frascati. Nuovo Cimento, 1961, 19, 250-264.	1.0	15
136	A pair spectrometer for energies up to 2 GeV. Nuclear Instruments & Methods, 1961, 12, 263-277.	1.2	5
137	Risultati preliminari della determinazione dello spettro di bremsstrahlung dellâ€™Elettrosincrotrone di Frascati. Nuovo Cimento, 1960, 15, 500-503.	1.0	4
138	Un contatore di Ærenkov a gas con rendimento prossimo allâ€™unitÃ. Nuovo Cimento, 1960, 16, 159-167.	1.0	0
139	Su un contatore di ÄŒerenkov a gas ad alto rendimento. Nuovo Cimento, 1959, 12, 156-163.	1.0	4