

Marcelo A Pereira-Da-Silva

List of Publications by Year in descending order

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121
papers

2,833
citations

186265
28
h-index

197818
49
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122
all docs

122
docs citations

122
times ranked

3980
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellulose micro/nanofibres from Eucalyptus kraft pulp: Preparation and properties. Carbohydrate Polymers, 2012, 89, 80-88.	10.2	246
2	In situ impedance spectroscopy study of the electrochemical corrosion of Ti and Ti ^{6Al} 4V in simulated body fluid at 25°C and 37°C. Corrosion Science, 2009, 51, 2473-2482.	6.6	235
3	Synthesis of Molecular Brushes with Gradient in Grafting Density by Atom Transfer Polymerization. Macromolecules, 2002, 35, 3387-3394.	4.8	183
4	Oxygen evolution in acid solution on IrO ₂ + TiO ₂ ceramic films. A study by impedance, voltammetry and SEM. Electrochimica Acta, 1997, 42, 271-281.	5.2	161
5	Measuring Molecular Weight by Atomic Force Microscopy. Journal of the American Chemical Society, 2003, 125, 6725-6728.	13.7	110
6	In situ thickness measurements of ultra-thin multilayer polymer films by atomic force microscopy. Nanotechnology, 1999, 10, 389-393.	2.6	84
7	Optically Induced Birefringence and Surface Relief Gratings in Composite Langmuir-Blodgett (LB) Films of Poly[[2-(methacryloyloxy)ethyl]ethylamino]-2-chloro-4-nitroazobenzene (HPDR13) and Cadmium Stearate. Macromolecules, 1999, 32, 1493-1499.	4.8	66
8	Morphological, chemical, and electrochemical properties of Ti/(TiO ₂ +IrO ₂) electrodes. Canadian Journal of Chemistry, 1997, 75, 1483-1493.	1.1	58
9	Graphene Oxide Mediated Broad-Spectrum Antibacterial Based on Bimodal Action of Photodynamic and Photothermal Effects. Frontiers in Microbiology, 2019, 10, 2995.	3.5	55
10	Enhanced Sensitivity of Gas Sensor Based on Poly(3-hexylthiophene) Thin-Film Transistors for Disease Diagnosis and Environment Monitoring. Sensors, 2015, 15, 9592-9609.	3.8	51
11	Electrochemical impedance, SEM, EDX and voltammetric study of oxygen evolution on Ir + Ti + Pt ternary-oxide electrodes in alkaline solution. Electrochimica Acta, 1996, 41, 1279-1285.	5.2	47
12	Impact of bleaching pine fibre on the fibre/cement interface. Journal of Materials Science, 2012, 47, 4167-4177.	3.7	47
13	Structural characterization of complexes prepared with glycerol monoestearate and maize starches with different amylose contents. Carbohydrate Polymers, 2016, 148, 371-379.	10.2	45
14	The morphology of layer-by-layer films of polymer/polyelectrolyte studied by atomic force microscopy. Nanotechnology, 2003, 14, 101-108.	2.6	44
15	Wormlike Micelles of Block Copolymers: Measuring the Linear Density by AFM and Light Scattering. Macromolecules, 2004, 37, 5002-5005.	4.8	44
16	Understanding the electronic properties of BaTiO ₃ and Er ³⁺ -doped BaTiO ₃ films through confocal scanning microscopy and XPS: the role of oxygen vacancies. Physical Chemistry Chemical Physics, 2020, 22, 15022-15034.	2.8	44
17	Effects of Oxygen Partial Pressure and Annealing Temperature on the Formation of Sputtered Tungsten Oxide Films. Journal of the Electrochemical Society, 2002, 149, H81.	2.9	43
18	Eu ³⁺ photoluminescence enhancement due to thermal energy transfer in Eu ₂ O ₃ -doped SiO ₂ -B ₂ O ₃ -PbO ₂ glasses system. Journal of Luminescence, 2011, 131, 850-855.	3.1	43

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19	Surface chemistry of the iron tetraazamacrocycle on the aminopropyl-modified surface of oxidized n-Si(100) by AFM and XPS. <i>Surface and Interface Analysis</i> , 2002, 33, 293-298.	1.8	42
20	Effective transcutaneous immunization using a combination of iontophoresis and nanoparticles. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 2439-2448.	3.3	42
21	Cellulose nanocrystals from natural fiber of the macrophyte <i>Typha domingensis</i> : extraction and characterization. <i>Cellulose</i> , 2015, 22, 449-460.	4.9	41
22	Resonant Raman scattering in CdS _x Se _{1-x} nanocrystals: effects of phonon confinement, composition, and elastic strain. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 1660-1669.	2.5	37
23	Confirming the lattice contraction in CdSe nanocrystals grown in a glass matrix by Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1302-1305.	2.5	35
24	Dielectric properties of cobalt ferrite nanoparticles in ultrathin nanocomposite films. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 19853.	2.8	35
25	Temperature-dependent Raman study of thermal parameters in CdS quantum dots. <i>Nanotechnology</i> , 2012, 23, 125701.	2.6	34
26	Ag induced modifications on WO ₃ films studied by AFM, Raman and x-ray photoelectron spectroscopy. <i>Journal Physics D: Applied Physics</i> , 2004, 37, 3383-3391.	2.8	33
27	Reduced graphene oxide multilayers for gas and liquid phases chemical sensing. <i>RSC Advances</i> , 2014, 4, 17917.	3.6	31
28	Titanium surface topography after brushing with fluoride and fluoride-free toothpaste simulating 10 years of use. <i>Journal of Dentistry</i> , 2012, 40, 265-275.	4.1	30
29	Growth process and grain boundary defects in Er doped BaTiO ₃ processed by EB-PVD: A study by XRD, FTIR, SEM and AFM. <i>Applied Surface Science</i> , 2019, 493, 982-993.	6.1	29
30	Layer-by-layer films of chitosan, poly(vinyl sulfonic acid), and platinum for methanol electrooxidation and oxygen electroreduction. <i>Journal of Power Sources</i> , 2006, 158, 160-163.	7.8	28
31	High-resolution photoelectron spectroscopy studies on WO ₃ films modified by Ag addition. <i>Journal of Physics Condensed Matter</i> , 2005, 17, 6813-6822.	1.8	26
32	Atomic Force Microscopy (AFM) Investigation of Langmuir-Blodgett (LB) Films of Sugar Cane Bagasse Lignin. <i>Holzforschung</i> , 2000, 54, 55-60.	1.9	25
33	Influence of the deposition method on the morphology and elemental composition of SnO ₂ films for gas sensing: atomic force and X-ray photoemission spectroscopy analysis. <i>Sensors and Actuators B: Chemical</i> , 2003, 92, 67-72.	7.8	25
34	Dynamic Scale Theory for Characterizing Surface Morphology of Layer-by-Layer Films of Poly(o-methoxyaniline). <i>Journal of Nanoscience and Nanotechnology</i> , 2004, 4, 548-552.	0.9	25
35	ZnTe nanocrystal formation and growth control on UV-transparent substrate. <i>Chemical Physics Letters</i> , 2010, 500, 46-48.	2.6	23
36	The maize stem as a potential source of cellulose nanocrystal: Cellulose characterization from its phenological growth stage dependence. <i>Industrial Crops and Products</i> , 2019, 133, 232-240.	5.2	23

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37	Adsorption of cobalt ferrite nanoparticles within layer-by-layer films: a kinetic study carried out using quartz crystal microbalance. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 21233.	2.8	22
38	Dilute magnetism in Zn _{1-x} Mn _x Te nanocrystals grown in a glass template. <i>Chemical Physics Letters</i> , 2012, 541, 44-48.	2.6	22
39	Optical spectroscopy of Nd ³⁺ ions in a nanostructured glass matrix. <i>Journal of Luminescence</i> , 2011, 131, 1401-1406.	3.1	21
40	The role of polymer films on the oxidation of magnetite nanoparticles. <i>Journal of Solid State Chemistry</i> , 2017, 246, 57-64.	2.9	21
41	Influence of crystal field potential on the spectroscopic parameters of SiO ₂ -B ₂ O ₃ -PbO glass doped with Nd ₂ O ₃ . <i>Journal of Luminescence</i> , 2011, 131, 1029-1036.	3.1	19
42	Graphene Oxide Theranostic Effect: Conjugation of Photothermal and Photodynamic Therapies Based on an in vivo Demonstration. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 1601-1616.	6.7	19
43	Plasmon-photon conversion to near-infrared emission from Yb ³⁺ : (Au/Ag-nanoparticles) in tungsten-tellurite glasses. <i>Scientific Reports</i> , 2016, 6, 18464.	3.3	18
44	Effects of defects, grain size, and thickness on the optical properties of BaTiO ₃ thin films. <i>Journal of Luminescence</i> , 2017, 192, 969-974.	3.1	18
45	Antifungal activity of 2-hydroxychalcone loaded in nanoemulsion against <i>Paracoccidioides</i> spp.. <i>Future Microbiology</i> , 2020, 15, 21-33.	2.0	18
46	Electrochemical oxidation of salicylic acid at ITO substrates modified with layer-by-layer films of carbon nanotubes and iron oxide nanoparticles. <i>Journal of Electroanalytical Chemistry</i> , 2017, 805, 53-59.	3.8	16
47	Microstructure and dielectric properties of (Ba,Sr)TiO ₃ thin film produced by the polymeric precursor method. <i>Journal of Materials Research</i> , 2000, 15, 1176-1181.	2.6	15
48	Grain size and interfacial interdiffusion influence on the magnetic and dielectric properties of magnetolectric La _{0.7} Ba _{0.3} MnO ₃ /BaTiO ₃ composites. <i>Journal of Magnetism and Magnetic Materials</i> , 2016, 407, 160-166.	2.3	15
49	Synthesis and Characterization of Nanostructured Lipid Nanocarriers for Enhanced Sun Protection Factor of Octyl p-methoxycinnamate. <i>AAPS PharmSciTech</i> , 2020, 21, 125.	3.3	15
50	Multilayered iron oxide/reduced graphene oxide nanocomposite electrode for voltammetric sensing of bisphenol-A in lake water and thermal paper samples. <i>Science of the Total Environment</i> , 2021, 763, 142985.	8.0	15
51	Structural and electrical properties of LaNiO ₃ thin films grown on (100) and (001) oriented SrLaAlO ₄ substrates by chemical solution deposition method. <i>Ceramics International</i> , 2013, 39, 8025-8034.	4.8	14
52	Iron Oxide Nanostructured Electrodes for Detection of Copper(II) Ions. <i>Journal of Nanoscience and Nanotechnology</i> , 2014, 14, 6614-6623.	0.9	14
53	High red emission intensity of Eu:Y ₂ O ₃ films grown on Si(1 0 0)/Si(1 1 1) by electron beam evaporation. <i>Journal of Luminescence</i> , 2014, 148, 186-191.	3.1	14
54	Effect of Fe-doping on the structural, microstructural, optical, and ferroelectric properties of Pb _{1/2} Sr _{1/2} Ti _{1-x} Fe _x O ₃ oxide prepared by spin coating technique. <i>Materials Letters</i> , 2015, 138, 179-183.	2.6	14

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55	Charge carrier transport in defective reduced graphene oxide as quantum dots and nanoplatelets in multilayer films. <i>Nanotechnology</i> , 2017, 28, 495711.	2.6	14
56	Experimental and computational investigation of reduced graphene oxide nanoplatelets stabilized in poly(styrene sulfonate) sodium salt. <i>Journal of Materials Science</i> , 2018, 53, 10049-10058.	3.7	14
57	Curcumin-loaded cationic solid lipid nanoparticles as a potential platform for the treatment of skin disorders. <i>Die Pharmazie</i> , 2017, 72, 721-727.	0.5	13
58	Quantum interference effects in a strongly fluctuating magnetic field. <i>Physical Review B</i> , 1996, 53, 13641-13644.	3.2	12
59	Development of the MnSi _{1.7} phase in Mn-containing Si films. <i>Materials Chemistry and Physics</i> , 2011, 129, 148-153.	4.0	12
60	Thermal diffusivity of a SNAB glass system doped with CdS nanocrystals and Nd ³⁺ . <i>Chemical Physics Letters</i> , 2011, 504, 67-70.	2.6	12
61	Layer-by-Layer Assembled Cobalt Ferrite Nanoparticles for Chemical Sensing. <i>Journal of Nanofluids</i> , 2013, 2, 175-183.	2.7	12
62	Self-organization of triblock copolymer patterns obtained by drying and dewetting. <i>European Physical Journal E</i> , 2006, 20, 309-315.	1.6	11
63	Thermoluminescence, structural and magnetic properties of a Li ₂ O-B ₂ O ₃ -Al ₂ O ₃ glass system doped with LiF and TiO ₂ . <i>Journal of Luminescence</i> , 2011, 131, 1002-1006.	3.1	11
64	Enhanced mobility and controlled transparency in multilayered reduced graphene oxide quantum dots: a charge transport study. <i>Nanotechnology</i> , 2019, 30, 275701.	2.6	11
65	Influence of thermal treatment time on structural and physical properties of polyimide films at beginning of carbonization. <i>Polymer Degradation and Stability</i> , 2016, 129, 399-407.	5.8	10
66	Structural, optical, magnetic, ferroelectric, and piezoelectric properties of (Pb,Ba)(Ti,Fe)O ₃ perovskites: a macroscopic and nanoscale properties approach. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9331-9342.	5.5	10
67	Characterization of indium-tin-oxide films treated by different procedures: effect of treatment time in aqua regia solution. <i>Materials Science and Engineering C</i> , 2004, 24, 595-599.	7.3	9
68	The migration of Mn ²⁺ ions in Cd ¹⁺ Mn S nanocrystals: Thermal annealing control. <i>Solid State Communications</i> , 2012, 152, 337-340.	1.9	9
69	Bending of Layer-by-Layer Films Driven by an External Magnetic Field. <i>International Journal of Molecular Sciences</i> , 2013, 14, 12953-12969.	4.1	9
70	Analysis of the Early Stages and Evolution of Dental Enamel Erosion. <i>Brazilian Dental Journal</i> , 2016, 27, 313-317.	1.1	9
71	Copper(II) complex-loaded castor oil-based nanostructured lipid carriers used against : Development, characterisation, and biological assays. <i>Die Pharmazie</i> , 2019, 74, 715-720.	0.5	8
72	Surface properties of eucalyptus pulp fibres as reinforcement of cement-based composites. <i>Holzforschung</i> , 2010, 64, .	1.9	7

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73	Effect of Mn concentration and atomic structure on the magnetic properties of Ge thin films. Journal of Applied Physics, 2010, 108, 113922.	2.5	7
74	Annealing time on carrier dynamics of ZnTe nanoparticles embedded in a near ultraviolet-transparent glass. Chemical Physics Letters, 2014, 599, 146-153.	2.6	7
75	Structure-property relationship of new polyimide-organically modified silicate-phosphotungstic acid hybrid material system. Journal of Materials Science, 2016, 51, 4815-4824.	3.7	7
76	Optical and structural characterizations of Cu ⁺ -doped KCl films. Thin Solid Films, 1994, 250, 273-278.	1.8	6
77	Chaotic electron dynamics around a single elliptically shaped antidot. Physical Review B, 1996, 54, 13859-13867.	3.2	6
78	Percolation network in a smooth artificial potential. Physical Review B, 1998, 58, 4636-4643.	3.2	6
79	Evidence of magnetic vortices formation in Mn-based sub-micrometre structures embedded in Si-Mn films. Journal Physics D: Applied Physics, 2009, 42, 132002.	2.8	6
80	Ferroelectric and structural instability of (Pb,Ca)TiO ₃ thin films prepared in an oxygen atmosphere and deposited on LSCO thin films which act as a buffer layer. Ceramics International, 2014, 40, 4085-4093.	4.8	6
81	On the Performance Degradation of Poly(3-Hexylthiophene) Field-Effect Transistors. IEEE Transactions on Device and Materials Reliability, 2015, 15, 342-351.	2.0	6
82	Accelerated Sonochemical Extraction of Cellulose Nanowhiskers. Journal of Nanoscience and Nanotechnology, 2016, 16, 6535-6539.	0.9	6
83	Magnetic studies of layer-by-layer assembled polyvinyl alcohol/iron oxide nanofilms. Physical Chemistry Chemical Physics, 2018, 20, 26696-26709.	2.8	6
84	Magnetoresistance oscillations in a dimpled two-dimensional electron gas. Surface Science, 1996, 361-362, 855-859.	1.9	5
85	Absence of delocalised states in a 2D electron gas in a magnetic field below $\tilde{\nu}_{oc} = 1$. Solid State Communications, 1996, 100, 269-273.	1.9	5
86	Photocatalytic Method for the Simultaneous Synthesis and Immobilization of Ag Nanoparticles onto Solid Substrates. Journal of Physical Chemistry C, 2018, 122, 24110-24119.	3.1	5
87	Electrocatalytic Oxidation of Ethinyl Estradiol by an Iron Oxide Nanoparticle/Nickel Phthalocyanine Supramolecular Electrode. Journal of Physical Chemistry C, 2020, 124, 19057-19069.	3.1	5
88	Dielectric Permittivity and Surface Charge Density in Layer-by-Layer Poly(diallyldimethylammonium) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Nano Materials, 2020, 3, 1749-1754.	5.0	5
89	Random magnetic field and weak localization effects in a dimpled 2D electron gas. Superlattices and Microstructures, 1995, 18, 67-73.	3.1	4
90	Magneto-oscillations in a trapezoidal two-dimensional electron gas grown over GaAs wires. Superlattices and Microstructures, 1998, 24, 197-201.	3.1	4

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91	Morphology and topography analysis of mesoporous titania templated by micrometric latex sphere arrays. <i>Microporous and Mesoporous Materials</i> , 2012, 152, 84-95.	4.4	4
92	Molds and Resists Studies for Nanoimprint Lithography of Electrodes in Low-Voltage Polymer Thin-Film Transistors. <i>Journal of Electronic Materials</i> , 2014, 43, 1317-1325.	2.2	4
93	Nanoscale investigation of ferroelectric and piezoelectric properties in (Pb,Ca)TiO ₃ thin films grown on LaNiO ₃ /LaAlO ₃ (1 0 0) and Pt/Si(1 1 1) using piezoresponse force microscopy. <i>Materials Letters</i> , 2017, 196, 64-68.	2.6	4
94	Voltammetric Detection of Ethinylestradiol in Water and Synthetic Urine Samples using a Ni(II) Phthalocyanine/Iron Oxide Nanocomposite Electrode. <i>Electroanalysis</i> , 2021, 33, 609-617.	2.9	4
95	Effects of strontium and calcium simultaneous substitution on electrical and structural properties of Pb _{1-x} Ca _x Sr _y TiO ₃ thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 96, 731-740.	2.3	3
96	High near-infrared emission intensity of Er ³⁺ -doped zirconium oxide films on a Si(100) substrate. , 2013, , .		3
97	Poly(allylamine hydrochloride) (PAH) and Bovine Serum Albumin (BSA) Protein Nanostructured as Layer-by-Layer Thin Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 3908-3915.	0.9	3
98	Optical properties of the nanocomposite of molybdenum disulphide monolayers/cellulose nanofibrils. <i>Cellulose</i> , 2020, 27, 713-728.	4.9	3
99	High-performance supercapacitor electrode based on a layer-by-layer assembled maghemite/magnetite/reduced graphene oxide nanocomposite film. <i>Journal of Electroanalytical Chemistry</i> , 2022, 908, 116123.	3.8	3
100	Langmuir-Blodgett films of ruthenium phosphine complexes characterized by Atomic Force Microscopy. <i>Synthetic Metals</i> , 2001, 121, 1425-1426.	3.9	2
101	Dynamic formation of SEBS copolymer submicrometric structures. <i>Polymer</i> , 2010, 51, 4145-4151.	3.8	2
102	Structural and electrical properties of LaNiO ₃ thin films grown on (100) and (001) oriented SrLaAlO ₄ substrates by chemical solution deposition method. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1633, 25-33.	0.1	2
103	Soft-lithography of ordered block copolymer nanostructures. <i>Micro and Nano Letters</i> , 2015, 10, 414-418.	1.3	2
104	Annealing temperature dependence of local piezoelectric response of (Pb,Ca)TiO ₃ ferroelectric thin films. <i>Ceramics International</i> , 2017, 43, 5047-5052.	4.8	2
105	Copper spherical cavity arrays: Fluorescence enhancement in PFO films. <i>Applied Surface Science</i> , 2017, 392, 1181-1186.	6.1	2
106	Oxidation degree or sheet size: What really matters for the photothermal effect and ecotoxicity of graphene oxide?. <i>FlatChem</i> , 2021, 26, 100231.	5.6	2
107	Monitoring and modeling the deposition of metal nanoparticles on surfaces by impedance. <i>Applied Surface Science</i> , 2021, 544, 148806.	6.1	2
108	Oscillation of the scattering time in a 2D electron system with oval antidots. <i>Solid-State Electronics</i> , 1996, 40, 441-446.	1.4	1

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109	Analysis of Polyaniline Films Using Atomic Force Microscopy. <i>Molecular Crystals and Liquid Crystals</i> , 2002, 374, 191-200.	0.9	1
110	Pt/TiO ₂ /Poly(vinyl sulfonic acid) Layer-by-Layer Films for Methanol Electrocatalytic Oxidation. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 6620-6626.	0.9	1
111	Investigation in SrTiO ₃ -CaTiO ₃ -PbTiO ₃ ternary thin films by dielectric proprieties and Raman spectroscopy. <i>Journal of Sol-Gel Science and Technology</i> , 2010, 55, 151-157.	2.4	1
112	A morphological view of the sodium 4,4'-distyrylbiphenyl sulfonate fluorescent brightness distribution on regenerated cellulose fibers. <i>Journal of Applied Polymer Science</i> , 2010, 118, 2321-2327.	2.6	1
113	The composition, structure and optical properties of weakly magnetic Co-containing amorphous Si and Ge films. <i>Materials Chemistry and Physics</i> , 2012, 134, 153-157.	4.0	1
114	Replication of Submicrometric Organized Structures of Block Copolymer from Coordination-Polymer Templates. <i>Advanced Science, Engineering and Medicine</i> , 2013, 5, 414-419.	0.3	1
115	Mycobacterium tuberculosis and Paracoccidioides brasiliensis Formation and Treatment of Mixed Biofilm In Vitro. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 681131.	3.9	1
116	Charge capture in heterostructures with disordered antidot lattice. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1995, 35, 322-324.	3.5	0
117	Cu ⁺ high doping effects in KCl and KBr films. <i>Radiation Effects and Defects in Solids</i> , 1995, 134, 357-360.	1.2	0
118	Optical absorbance of P3HT thin films used to estimate simultaneously thin-film thickness and morphology for gas sensing. <i>Proceedings of SPIE</i> , 2015, , .	0.8	0
119	Electrochemical Behavior of Cellulose Nanofibrils Functionalized with Dicyanovinyl Groups. , 0, , .		0
120	Water enabled self-healing polymeric coating with reduced graphene oxide-reinforcement for sensors. <i>Sensors and Actuators Reports</i> , 2021, , 100059.	4.4	0
121	Metal enhanced fluorescence using nanostructures on silver formed with Ti: Sapphire femtosecond pulsed laser. , 2020, , .		0