

# Esther Rebollar

## List of Publications by Year in descending order

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109  
papers

2,285  
citations

218381

26  
h-index

253896

43  
g-index

111  
all docs

111  
docs citations

111  
times ranked

2515  
citing authors

#	ARTICLE	IF	CITATIONS
1	Generation of multiple triplet states in an orthogonal bodipy dimer: a breakthrough spectroscopic and theoretical approach. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 5929-5938.	1.3	10
2	Synthesis of smooth amorphous thin films of silicon carbide with controlled properties through pulsed laser deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2022, 128, 1.	1.1	3
3	Probing structure development in Poly(vinylidene Fluoride) during 3-D printing by small and wide angle X-ray scattering. <i>Polymer</i> , 2022, 249, 124827.	1.8	9
4	BINOL blocks as accessible triplet state modulators in BODIPY dyes. <i>Chemical Communications</i> , 2022, 58, 6385-6388.	2.2	4
5	Photophysical and structural modulation of poly(3-hexylthiophene) nanoparticles via surfactant-polymer interaction. <i>Polymer</i> , 2021, 218, 123515.	1.8	8
6	Straightforward Patterning of Functional Polymers by Sequential Nanosecond Pulsed Laser Irradiation. <i>Nanomaterials</i> , 2021, 11, 1123.	1.9	7
7	Photoinduced Resist-free Imprinting (PRI) in fullerene thin films as revealed by Grazing Incidence Small-angle X-ray scattering. <i>Applied Surface Science</i> , 2021, 548, 149254.	3.1	0
8	Nanostructural organization of thin films prepared by sequential dip-coating deposition of poly(butylene succinate), poly( $\mu$ -caprolactone) and their copolyesters (PBS-ran-PCL). <i>Polymer</i> , 2021, 226, 123812.	1.8	6
9	Laser Interactions with Organic/Polymer Materials. , 2021, , 165-212.		1
10	Femtosecond Double-Pulse Laser Ablation and Deposition of Co-Doped ZnS Thin Films. <i>Nanomaterials</i> , 2020, 10, 2229.	1.9	10
11	Red/NIR Thermally Activated Delayed Fluorescence from Aza-BODIPYs. <i>Chemistry - A European Journal</i> , 2020, 26, 16080-16088.	1.7	7
12	Laser-Induced Periodic Surface Structuring of Poly(trimethylene terephthalate) Films Containing Tungsten Disulfide Nanotubes. <i>Polymers</i> , 2020, 12, 1090.	2.0	5
13	Anisotropy engineering of soft thin films in the undulated magnetic state. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 514, 167149.	1.0	7
14	Wrinkling poly(trimethylene 2,5-furanoate) free-standing films: Nanostructure formation and physical properties. <i>Polymer</i> , 2020, 202, 122666.	1.8	13
15	Laser nanostructuring of thin films of PEDOT:PSS on ITO: Morphology, molecular structure and electrical properties. <i>Applied Surface Science</i> , 2020, 509, 145350.	3.1	8
16	Laser Interactions with Organic/Polymer Materials. , 2020, , 1-49.		6
17	Morphology and Ferroelectric Properties of Semiconducting/Ferroelectric Polymer Bilayers. <i>Macromolecules</i> , 2019, 52, 7396-7402.	2.2	12
18	Functional nanostructured surfaces induced by laser on fullerene thin films. <i>Applied Surface Science</i> , 2019, 476, 668-675.	3.1	7

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19	Synergistic Effect of Fullerenes on the Laser-Induced Periodic Surface Structuring of Poly(3-Hexyl Tj ETQq1 1 0.784314 rgBT 5/Overloc	2.0	5
20	Quantitative assessment by local probe methods of the mechanical and electrical properties of inkjet-printed PEDOT:PSS thin films over Indium Tin Oxide substrates. Organic Electronics, 2019, 70, 258-263.	1.4	8
21	Nanosecond laser-induced interference grating formation on silicon. Journal Physics D: Applied Physics, 2019, 52, 225302.	1.3	11
22	Laterally-resolved mechanical and tribological properties of laser-structured polymer nanocomposites. Polymer, 2019, 168, 178-184.	1.8	10
23	Laser-Induced Periodic Surface Structures (LIPSS) on Polymer Surfaces. , 2019, , 143-155.		0
24	Evidence of anomalous switching of the in-plane magnetic easy axis with temperature in Fe <sub>3</sub> O <sub>4</sub> film on SrTiO <sub>3</sub> :Nb by v-MOKE and ferromagnetic resonance. Nanoscale, 2019, 11, 19870-19876.	2.8	3
25	Structure Development in Polymers during Fused Filament Fabrication (FFF): An in Situ Small- and Wide-Angle X-ray Scattering Study Using Synchrotron Radiation. Macromolecules, 2019, 52, 9715-9723.	2.2	45
26	Flexible, multifunctional nanoribbon arrays of palladium nanoparticles for transparent conduction and hydrogen detection. Applied Surface Science, 2019, 470, 212-218.	3.1	6
27	Form and magnetic birefringence in undulated Permalloy/PET films. Optics Express, 2019, 27, 21285.	1.7	5
28	Optical properties of bismuth nanostructures towards the ultrathin film regime. Optical Materials Express, 2019, 9, 2924.	1.6	17
29	Laser induced periodic surface structures formation by nanosecond laser irradiation of poly (ethylene terephthalate) reinforced with Expanded Graphite. Applied Surface Science, 2018, 436, 1193-1199.	3.1	13
30	Patterning Conjugated Polymers by Laser: Synergy of Nanostructure Formation in the All-Polymer Heterojunction P3HT/PCDTBT. Langmuir, 2018, 34, 115-125.	1.6	12
31	Effect of wavelength, deposition temperature and substrate type on cobalt ferrite thin films grown by pulsed laser deposition. Applied Surface Science, 2018, 452, 19-31.	3.1	29
32	Resonant soft x-ray scattering unravels the hierarchical morphology of nanostructured bulk heterojunction photovoltaic thin films. Physical Review Materials, 2018, 2, .	0.9	4
33	Laser Nanostructuring of Polymers. , 2018, , 471-497.		0
34	Unveiling the Far Infrared-to-Ultraviolet Optical Properties of Bismuth for Applications in Plasmonics and Nanophotonics. Journal of Physical Chemistry C, 2017, 121, 3511-3521.	1.5	61
35	Formation of polymer nanoparticles by UV pulsed laser ablation of poly (bisphenol A carbonate) in liquid environment. Applied Surface Science, 2017, 418, 522-529.	3.1	11
36	Quantitative Nanomechanical Properties of Multilayer Films Made of Polysaccharides through Spray Assisted Layer-by-Layer Assembly. Biomacromolecules, 2017, 18, 169-177.	2.6	24

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37	Laser induced periodic surface structures on polymer nanocomposites with carbon nanoadditives. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	8
38	Influence of substrate and film thickness on polymer LIPSS formation. Applied Surface Science, 2017, 394, 125-131.	3.1	39
39	Fluence dependent electrical conductivity in aluminium thin films grown by infrared pulsed laser deposition. Applied Surface Science, 2016, 387, 1188-1194.	3.1	1
40	Laser-Induced Periodic Surface Structures on P3HT and on Its Photovoltaic Blend with PC <sub>71</sub> BM. ACS Applied Materials & Interfaces, 2016, 8, 31894-31901.	4.0	34
41	Relaxation and Conductivity in P3HT/PC <sub>71</sub> BM Blends As Revealed by Dielectric Spectroscopy. Macromolecules, 2016, 49, 2709-2717.	2.2	22
42	Ablation dynamics of Co/ZnS targets under double pulse femtosecond laser irradiation. Physical Chemistry Chemical Physics, 2016, 18, 3522-3529.	1.3	7
43	Formation of LIPSS in nanocomposites of Poly (ethylene terephthalate)/Expanded Graphite by using UV nanosecond laser pulses. , 2016, , .		0
44	Laser-induced surface structures on gold-coated polymers: Influence of morphology on surface-enhanced Raman scattering enhancement. Journal of Applied Polymer Science, 2015, 132, .	1.3	13
45	Laser-Induced Periodic Surface Structures on Conjugated Polymers: Poly(3-hexylthiophene). Macromolecules, 2015, 48, 4024-4031.	2.2	46
46	Mapping the Structural Order of Laser-Induced Periodic Surface Structures in Thin Polymer Films by Microfocus Beam Grazing Incidence Small-Angle X-ray Scattering. ACS Applied Materials & Interfaces, 2015, 7, 3162-3169.	4.0	7
47	<i>In Situ</i> Monitoring of Laser-Induced Periodic Surface Structures Formation on Polymer Films by Grazing Incidence Small-Angle X-ray Scattering. Langmuir, 2015, 31, 3973-3981.	1.6	29
48	Laser induced periodic surface structures on polymer films: From fundamentals to applications. European Polymer Journal, 2015, 73, 162-174.	2.6	131
49	Laser Fabrication of Polymer Ferroelectric Nanostructures for Nonvolatile Organic Memory Devices. ACS Applied Materials & Interfaces, 2015, 7, 19611-19618.	4.0	31
50	Self-organized single crystal mixed magnetite/cobalt ferrite films grown by infrared pulsed-laser deposition. Applied Surface Science, 2015, 359, 480-485.	3.1	11
51	On the assessment by grazing-incidence small-angle X-ray scattering of replica quality in polymer gratings fabricated by nanoimprint lithography. Journal of Applied Crystallography, 2014, 47, 613-618.	1.9	12
52	Microstructuring of soft organic matter by temporally shaped femtosecond laser pulses. Applied Surface Science, 2014, 302, 231-235.	3.1	10
53	Physicochemical modifications accompanying UV laser induced surface structures on poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Over oc Physics, 2014, 16, 17551.	1.3	99
54	Laser Nanofabrication of Soft Matter. Springer Series in Materials Science, 2014, , 325-344.	0.4	1

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55	Stoichiometric magnetite grown by infrared nanosecond pulsed laser deposition. <i>Applied Surface Science</i> , 2013, 282, 642-651.	3.1	17
56	Laser-induced periodic surface structuring of biopolymers. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 683-690.	1.1	47
57	Nanosecond laser-induced periodic surface structures on wide band-gap semiconductors. <i>Applied Surface Science</i> , 2013, 278, 325-329.	3.1	29
58	Wavelength and pulse duration effects on laser induced changes on raw pigments used in paintings. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 102, 7-14.	2.0	35
59	Assessment of femtosecond laser induced periodic surface structures on polymer films. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 11287.	1.3	95
60	Room temperature in-plane $\sim 100^\circ$ magnetic easy axis for Fe <sub>3</sub> O <sub>4</sub> /SrTiO <sub>3</sub> (001):Nb grown by infrared pulsed laser deposition. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	37
61	Structural and magnetic characterization of magnetite deposits prepared by infrared pulsed laser deposition. , 2013, , .		0
62	Laser nanostructuring of polymers: Ripples and applications. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	10
63	Grazing-incidence small-angle X-ray scattering of soft and hard nanofabricated gratings. <i>Journal of Applied Crystallography</i> , 2012, 45, 1038-1045.	1.9	51
64	Fabrication of porous biopolymer substrates for cell growth by UV laser: The role of pulse duration. <i>Applied Surface Science</i> , 2012, 258, 8919-8927.	3.1	43
65	Gold coating of micromechanical DNA biosensors by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	6
66	Gold coatings on polymer laser induced periodic surface structures: assessment as substrates for surface-enhanced Raman scattering. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15699.	1.3	39
67	Laser-Induced Periodic Surface Structures Nanofabricated on Poly(trimethylene terephthalate) Spin-Coated Films. <i>Langmuir</i> , 2012, 28, 7938-7945.	1.6	49
68	Ultraviolet and infrared femtosecond laser induced periodic surface structures on thin polymer films. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	71
69	Assessment and Formation Mechanism of Laser-Induced Periodic Surface Structures on Polymer Spin-Coated Films in Real and Reciprocal Space. <i>Langmuir</i> , 2011, 27, 5596-5606.	1.6	81
70	Laser ablation and deposition of wide bandgap semiconductors: plasma and nanostructure of deposits diagnosis. <i>Journal of Nanoparticle Research</i> , 2011, 13, 6621-6631.	0.8	20
71	Improvement of electrospun polymer fiber meshes pore size by femtosecond laser irradiation. <i>Applied Surface Science</i> , 2011, 257, 4091-4095.	3.1	27
72	Experimental and theoretical study of the Nd:YAG laser removal of beeswax on Galician granite at 355 nm. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 741-746.	1.1	2

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73	Optimisation of Raman analysis of walnut oil used as protective coating of Galician granite monuments. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 1449-1454.	1.2	12
74	Surface modification of a biodegradable composite by UV laser ablation: <i>in vitro</i> biological performance. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2010, 4, n/a-n/a.	1.3	4
75	Experimental and theoretical study of the ND:YAG laser removal of beeswax on Galician granite at 355 nm. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 741.	1.1	1
76	Examination of the influence of molecular weight on polymer laser ablation: polystyrene at 248 nm. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 1043-1046.	1.1	14
77	Gold coatings on polyethyleneterephthalate nano-patterned by F2 laser irradiation. <i>Applied Surface Science</i> , 2008, 254, 3585-3590.	3.1	35
78	Proliferation of aligned mammalian cells on laser-nanostructured polystyrene. <i>Biomaterials</i> , 2008, 29, 1796-1806.	5.7	219
79	Electroporation chip for adherent cells on photochemically modified polymer surfaces. <i>Applied Physics Letters</i> , 2008, 92, 013901.	1.5	23
80	UV surface modification of a new nanocomposite polymer to improve cytocompatibility. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007, 18, 453-468.	1.9	30
81	Effect of molecular weight on the physicochemical modifications induced in the UV laser ablation of doped polymers. <i>Journal of Physics: Conference Series</i> , 2007, 59, 193-197.	0.3	0
82	UV, visible and IR laser interaction with gelatine. <i>Journal of Physics: Conference Series</i> , 2007, 59, 571-574.	0.3	24
83	Analysis of plume following ultraviolet laser ablation of doped polymers: Dependence on polymer molecular weight. <i>Journal of Applied Physics</i> , 2007, 101, 033106.	1.1	7
84	Pulsed Laser Deposition of Polymers Doped with Fluorescent Probes. Application to Environmental Sensors. <i>Journal of Physics: Conference Series</i> , 2007, 59, 305-309.	0.3	4
85	IR laser ablation of doped poly(methyl methacrylate). <i>Applied Surface Science</i> , 2007, 253, 6442-6446.	3.1	6
86	Morphological and chemical modifications and plume ejection following UV laser ablation of doped polymers: Dependence on polymer molecular weight. <i>Applied Surface Science</i> , 2007, 253, 7820-7825.	3.1	9
87	Characterization of cinematographic films by Laser Induced Breakdown Spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 1612-1617.	1.5	13
88	A Comprehensive Study of the Coloration Effect Associated with Laser Cleaning of Pollution Encrustations from Stonework. , 2007, , 105-114.		1
89	From the Lab to the Scaffold: Laser Cleaning of Polychromed Architectonic Elements and Sculptures. <i>Springer Proceedings in Physics</i> , 2007, , 185-189.	0.1	2
90	Dependence of ultraviolet nanosecond laser polymer ablation on polymer molecular weight: Poly(methyl methacrylate) at 248 nm. <i>Journal of Applied Physics</i> , 2006, 100, 114323.	1.1	35

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91	Effect of Molecular Weight on the Morphological Modifications Induced by UV Laser Ablation of Doped Polymers. Journal of Physical Chemistry B, 2006, 110, 16452-16458.	1.2	34
92	Influence of Polymer Molecular Weight on the Chemical Modifications Induced by UV Laser Ablation. Journal of Physical Chemistry B, 2006, 110, 14215-14220.	1.2	29
93	Submicro foaming in biopolymers by UV pulsed laser irradiation. , 2006, 6261, 404.		4
94	Laser-induced fluorescence and thermoluminescence response of a Na <sup>+</sup> Ca rich silicate. Radiation Measurements, 2006, 41, 971-975.	0.7	6
95	Pulsed laser deposition of polymers doped with fluorescent molecular sensors. Applied Physics A: Materials Science and Processing, 2006, 84, 171-180.	1.1	17
96	Infrared and ultraviolet laser ablation mechanisms of SiO. Applied Physics A: Materials Science and Processing, 2006, 85, 33-37.	1.1	6
97	Laser Removal of Protective Treatments on Limestone. , 2005, , 149-155.		0
98	Laser Paint Interactions Studied by Optical Emission Spectroscopy and Pump and Probe Analysis of the Ablation Plume. Springer Proceedings in Physics, 2005, , 277-284.	0.1	1
99	Influence of polymer molecular weight on the UV ablation of doped poly(methyl methacrylate). Applied Surface Science, 2005, 248, 254-258.	3.1	21
100	Laser cleaning of terracotta decorations of the portal of Palos of the Cathedral of Seville. Journal of Cultural Heritage, 2005, 6, 321-327.	1.5	17
101	Identification of inks and structural characterization of contemporary artistic prints by laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 1140-1148.	1.5	36
102	Analysis of corroded glasses by laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 1155-1162.	1.5	59
103	Examination of photoproducts in the ablation plume of doped PMMA. Applied Physics A: Materials Science and Processing, 2004, 79, 1357-1360.	1.1	10
104	Spectroscopic studies of laser ablation plumes of artwork materials. Applied Surface Science, 2003, 211, 128-135.	3.1	11
105	Laser removal of water repellent treatments on limestone. Applied Surface Science, 2003, 219, 290-299.	3.1	22
106	Effect of wavelength on the laser cleaning of polychromes on wood. Journal of Cultural Heritage, 2003, 4, 243-249.	1.5	26
107	A comprehensive study of the coloration effect associated with laser cleaning of pollution encrustations from stonework. , 0, , .		0
108	Fundamental studies of the effect of molecular weight on the UV laser ablation of polymers. , 0, , .		0

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109	Laser-Induced Breakdown Spectroscopy of Cinematographic Film. , 0, , 421-428.		0