Mohamed Oujja

List of Publications by Year
in descending order

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118	2,276	186265	302126
papers	citations	28 h-index	39 g-index

119	119	119	2098
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparative SERS effectiveness of silver nanoparticles prepared by different methods: A study of the enhancement factor and the interfacial properties. Journal of Colloid and Interface Science, 2008, 326, 103-109.	9.4	111
2	Practical issues in laser cleaning of stone and painted artefacts: optimisation procedures and side effects. Applied Physics A: Materials Science and Processing, 2012, 106, 447-464.	2.3	82
3	Analytical Study of the Chemical and Physical Changes Induced by KrF Laser Cleaning of Tempera Paints. Analytical Chemistry, 2002, 74, 4662-4671.	6.5	80
4	Micro-structural characterization of black crust and laser cleaning of building stones by micro-Raman and SEM techniques. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2005, 61, 2460-2467.	3.9	63
5	Analysis of corroded glasses by laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 1155-1162.	2.9	59
6	Spectroscopic Analysis of Pigments and Binding Media of Polychromes by the Combination of Optical Laser-Based and Vibrational Techniques. Applied Spectroscopy, 2001, 55, 992-998.	2.2	50
7	Laser-induced periodic surface structuring of biopolymers. Applied Physics A: Materials Science and Processing, 2013, 110, 683-690.	2.3	47
8	Platinum Nanoparticles Prepared by Laser Ablation in Aqueous Solutions: Fabrication and Application to Laser Desorption Ionization. Journal of Physical Chemistry C, 2011, 115, 22217-22224.	3.1	46
9	The laser-induced discoloration of stonework; a comparative study on its origins and remedies. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2008, 71, 932-945.	3.9	43
10	Fabrication of porous biopolymer substrates for cell growth by UV laser: The role of pulse duration. Applied Surface Science, 2012, 258, 8919-8927.	6.1	43
11	Evaluation of laser cleaning for the restoration of tarnished silver artifacts. Applied Surface Science, 2016, 387, 118-127.	6.1	41
12	Laser induced foaming and chemical modifications of gelatine films. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 193, 187-192.	3.9	40
13	Room temperature in-plane âŸ¨100âŸ© magnetic easy axis for Fe3O4/SrTiO3(001):Nb grown by infrared pulsed laser deposition. Journal of Applied Physics, 2013, 114, .	2.5	37
14	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.	2.9	36
15	Femtosecond pulsed laser deposition of nanostructured TiO2 films. Applied Surface Science, 2009, 255, 5206-5210.	6.1	35
16	CaF<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>ablation plumes as a source of CaF molecules for harmonic generation. Physical Review A, 2010, 81, .	2.5	35
17	Harmonic generation in ablation plasmas of wide bandgap semiconductors. Physical Chemistry Chemical Physics, 2011, 13, 10755.	2.8	35
18	Wavelength and pulse duration effects on laser induced changes on raw pigments used in paintings. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 102, 7-14.	3.9	35

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19	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.	2.6	34
20	Lead determination in glasses by laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 94-100.	2.9	34
21	Low-order harmonic generation in metal ablation plasmas in nanosecond and picosecond laser regimes. Journal of Applied Physics, 2012, 111, 043111.	2.5	34
22	Nd-YAG laser irradiation damages to Verrucaria nigrescens. International Biodeterioration and Biodegradation, 2013, 84, 281-290.	3.9	33
23	Nanofoaming in the surface of biopolymers by femtosecond pulsed laser irradiation. Applied Surface Science, 2007, 254, 1179-1184.	6.1	32
24	Three dimensional microstructuring of biopolymers by femtosecond laser irradiation. Applied Physics Letters, 2009, 95, 263703.	3.3	31
25	Pulsed laser deposition of TiO2: diagnostic of the plume and characterization of nanostructured deposits. Applied Physics A: Materials Science and Processing, 2008, 93, 735-740.	2.3	30
26	Influence of Polymer Molecular Weight on the Chemical Modifications Induced by UV Laser Ablation. Journal of Physical Chemistry B, 2006, 110, 14215-14220.	2.6	29
27	Nanosecond pulsed laser deposition of TiO2: nanostructure and morphology of deposits and plasma diagnosis. Thin Solid Films, 2009, 517, 6546-6552.	1.8	29
28	Analysis of heritage stones and model wall paintings by pulsed laser excitation of Raman, laser-induced fluorescence and laser-induced breakdown spectroscopy signals with a hybrid system. Journal of Cultural Heritage, 2018, 32, 1-8.	3.3	29
29	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.	6.1	29
30	Submicron foaming in gelatine by nanosecond and femtosecond pulsed laser irradiation. Applied Surface Science, 2007, 253, 6420-6424.	6.1	28
31	Platinum Nanoparticles as Photoactive Substrates for Mass Spectrometry and Spectroscopy Sensors. Journal of Physical Chemistry C, 2014, 118, 11432-11439.	3.1	28
32	Interaction of femtosecond laser pulses with tempera paints. Applied Surface Science, 2008, 255, 2675-2681.	6.1	27
33	Effectiveness of antigraffiti treatments in connection with penetration depth determined by different techniques. Journal of Cultural Heritage, 2010, 11, 297-303.	3.3	27
34	UV laser removal of varnish on tempera paints with nanosecond and femtosecond pulses. Physical Chemistry Chemical Physics, 2011, 13, 4625.	2.8	27
35	Infrared and ultraviolet laser removal of crustose lichens on dolomite heritage stone. Applied Surface Science, 2015, 346, 248-255.	6.1	27
36	Influence of wavelength on the laser removal of lichens colonizing heritage stone. Applied Surface Science, 2017, 399, 758-768.	6.1	27

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37	Evaluation of the chemical and physical changes induced by KrF laser irradiation of tempera paints. Journal of Cultural Heritage, 2003, 4, 257-263.	3.3	26
38	Effect of wavelength on the laser cleaning of polychromes on wood. Journal of Cultural Heritage, 2003, 4, 243-249.	3.3	26
39	Low-order harmonic generation in nanosecond laser ablation plasmas of carbon containing materials. Applied Surface Science, 2013, 278, 33-37.	6.1	25
40	UV, visible and IR laser interaction with gelatine. Journal of Physics: Conference Series, 2007, 59, 571-574.	0.4	24
41	Unconventional properties of nanometric FeO(111) films on Ru(0001): stoichiometry and surface structure. Journal of Materials Chemistry C, 2016, 4, 1850-1859.	5.5	24
42	Analytical Spectroscopic Investigation of Wavelength and Pulse Duration Effects on Laser-Induced Changes of Egg-Yolk-Based Tempera Paints. Applied Spectroscopy, 2010, 64, 528-536.	2.2	23
43	Laser removal of water repellent treatments on limestone. Applied Surface Science, 2003, 219, 290-299.	6.1	22
44	Observation of middle-sized metal clusters in femtosecond laser ablation plasmas through nonlinear optics. Physical Chemistry Chemical Physics, 2018, 20, 16956-16965.	2.8	22
45	Influence of polymer molecular weight on the UV ablation of doped poly(methyl methacrylate). Applied Surface Science, 2005, 248, 254-258.	6.1	21
46	Modeling the dynamics of one laser pulse surface nanofoaming ofÂbiopolymers. Applied Physics A: Materials Science and Processing, 2009, 94, 719-729.	2.3	21
47	Laser induced breakdown spectroscopy for analysis and characterization of degradation pathologies of Roman glasses. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2013, 87, 114-120.	2.9	21
48	Multianalytical characterization of Late Roman glasses including nanosecond and femtosecond laser induced breakdown spectroscopy. Journal of Analytical Atomic Spectrometry, 2015, 30, 1590-1599.	3.0	21
49	Spectroscopic assessment of the UV laser removal of varnishes from painted surfaces. Microchemical Journal, 2016, 124, 792-803.	4.5	21
50	Nonlinear imaging microscopy for assessing structural and photochemical modifications upon laser removal of dammar varnish on photosensitive substrates. Physical Chemistry Chemical Physics, 2017, 19, 22836-22843.	2.8	21
51	Harmonic generation by atomic and nanoparticle precursors in a ZnS laser ablation plasma. Applied Surface Science, 2017, 392, 572-580.	6.1	19
52	Effect of biological colonization on ceramic roofing tiles by lichens and a combined laser and biocide procedure for its removal. International Biodeterioration and Biodegradation, 2018, 126, 86-94.	3.9	19
53	Nanofoaming dynamics in biopolymers by femtosecond laser irradiation. Applied Physics A: Materials Science and Processing, 2008, 93, 209-213.	2.3	18
54	Laser-induced fluorescence and FT-Raman spectroscopy for characterizing patinas on stone substrates. Analytical and Bioanalytical Chemistry, 2012, 402, 1433-1441.	3.7	18

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55	Laser cleaning ofÂterracotta decorations ofÂtheÂportal ofÂPalos ofÂtheÂCathedral ofÂSeville. Journal of Cultural Heritage, 2005, 6, 321-327.	3.3	17
56	Pulsed laser deposition of polymers doped with fluorescent molecular sensors. Applied Physics A: Materials Science and Processing, 2006, 84, 171-180.	2.3	17
57	Evaluation of femtosecond laser pulse irradiation of ancient parchment. Applied Surface Science, 2008, 255, 3179-3183.	6.1	17
58	Stoichiometric magnetite grown by infrared nanosecond pulsed laser deposition. Applied Surface Science, 2013, 282, 642-651.	6.1	17
59	Multianalytical non-invasive characterization of phthalocyanine acrylic paints through spectroscopic and non-linear optical techniques. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 208, 262-270.	3.9	17
60	X-ray and ion irradiation effects on azurite, malachite and alizarin pictorial models. Microchemical Journal, 2018, 137, 381-391.	4.5	15
61	Bulk and surface characterisation of micrometer-thick cobalt ferrite films grown by IR PLD. Applied Surface Science, 2019, 470, 917-922.	6.1	14
62	Safe limits for the application of nonlinear optical microscopies to cultural heritage: A new method for in-situ assessment. Microchemical Journal, 2020, 154, 104568.	4.5	14
63	Characterization of cinematographic films by Laser Induced Breakdown Spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 1612-1617.	2.9	13
64	Generation of low-order harmonics in laser ablation plasmas. Molecular Physics, 2012, 110, 1651-1657.	1.7	12
65	MÃ¶ssbauer and Magnetic Properties of Coherently Mixed Magnetite-Cobalt Ferrite Grown by Infrared Pulsed-Laser Deposition. Croatica Chemica Acta, 2015, 88, 453-460.	0.4	12
66	Imaging spectroscopy of Ag plasmas produced by infrared nanosecond laser ablation. Journal of Analytical Atomic Spectrometry, 2019, 34, 489-497.	3.0	12
67	Multiphoton Excitation Fluorescence Microscopy and Spectroscopic Multianalytical Approach for Characterization of Historical Glass Grisailles. Talanta, 2021, 230, 122314.	5.5	12
68	Spectroscopic studies of laser ablation plumes of artwork materials. Applied Surface Science, 2003, 211, 128-135.	6.1	11
69	Pigment identification of a XIV/XV c. wooden crucifix by means of the Raman spectroscopic technique. Journal of Raman Spectroscopy, 2006, 37, 1125-1130.	2.5	11
70	Self-organized single crystal mixed magnetite/cobalt ferrite films grown by infrared pulsed-laser deposition. Applied Surface Science, 2015, 359, 480-485.	6.1	11
71	Micrometric rods grown by nanosecond pulsed laser deposition of boron carbide. Applied Surface Science, 2015, 328, 170-176.	6.1	11
72	Photodissociation of ketene with a narrow-band tunable laser around 212.5 nm. Chemical Physics Letters, 1995, 237, 367-372.	2.6	10

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73	Examination of photoproducts in the ablation plume of doped PMMA. Applied Physics A: Materials Science and Processing, 2004, 79, 1357-1360.	2.3	10
74	Femtosecond laser deposition of TiO2 by laser induced forward transfer. Thin Solid Films, 2010, 518, 5525-5529.	1.8	10
75	Laser nanostructuring of polymers: Ripples and applications. AIP Conference Proceedings, 2012, , .	0.4	10
76	Morphological and chemical modifications and plume ejection following UV laser ablation of doped polymers: Dependence on polymer molecular weight. Applied Surface Science, 2007, 253, 7820-7825.	6.1	9
77	Characterization of laser-induced plasmas of nucleobases: Uracil and thymine. Applied Surface Science, 2014, 302, 299-302.	6.1	9
78	In-Depth Analysis of Egg-Tempera Paint Layers by Multiphoton Excitation Fluorescence Microscopy. Sustainability, 2020, 12, 3831.	3.2	9
79	IR and UV laser-induced photolysis of 2-chloroethenylsilane. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 110, 107-113.	3.9	8
80	Frequency mixing in boron carbide laser ablation plasmas. Applied Surface Science, 2015, 336, 53-58.	6.1	8
81	Analysis of plume following ultraviolet laser ablation of doped polymers: Dependence on polymer molecular weight. Journal of Applied Physics, 2007, 101, 033106.	2.5	7
82	Laser cleaning of 19th century Congo rattan mats. Applied Surface Science, 2011, 257, 9935-9940.	6.1	7
83	Optical diagnostics of gold plasmas produced by infrared laser ablation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 256, 107308.	2.3	7
84	Characterization of medieval-like glass alteration layers by laser spectroscopy and nonlinear optical microscopy. European Physical Journal Plus, 2021, 136, 1.	2.6	7
85	Multiphoton Dissociation of Phenylsilane Upon Excitation at 212.5 NM. Laser Chemistry, 1996, 16, 157-166.	0.5	6
86	Laser-induced fluorescence and thermoluminescence response of a Naâ€“Ca rich silicate. Radiation Measurements, 2006, 41, 971-975.	1.4	6
87	Infrared and ultraviolet laser ablation mechanisms of SiO. Applied Physics A: Materials Science and Processing, 2006, 85, 33-37.	2.3	6
88	IR laser ablation of doped poly(methyl methacrylate). Applied Surface Science, 2007, 253, 6442-6446.	6.1	6
89	Detecting molecular changes in UV laser-ablated oil/diterpenoid resin coatings using micro-Raman spectroscopy and Laser Induced Fluorescence. Microchemical Journal, 2018, 141, 12-24.	4.5	6
90	Integrating LIBS LIF Raman into a single multi-spectroscopic mobile device for in situ cultural heritage analysis. , 2019, , .		6

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91	Spectroscopic and Microscopic Characterization of Flashed Glasses from Stained Glass Windows. Applied Sciences (Switzerland), 2022, 12, 5760.	2.5	5
92	Real time study of the infrared multiphoton dissociation of vinylbromide. Journal of Photochemistry and Photobiology A: Chemistry, 1999, 125, 1-11.	3.9	4
93	Submicro foaming in biopolymers by UV pulsed laser irradiation. , 2006, 6261, 404.		4
94	Pulsed Laser Deposition of Polymers Doped with Fluorescent Probes. Application to Environmental Sensors. Journal of Physics: Conference Series, 2007, 59, 305-309.	0.4	4
95	Dynamics of One Laser Pulse Surface Nanofoaming of Biopolymers. Journal of Laser Micro Nanoengineering, 2009, 4, 152-158.	0.1	4
96	HCL(B1â^'+) and HBr(B1â^'+) Emission From the Ultraviolet Multiphoton Dissociation of Vinyl Chloride and Bromide. Laser Chemistry, 1996, 16, 207-218.	0.5	3
97	ArF laser dissociation of trisilane. Journal of Photochemistry and Photobiology A: Chemistry, 1996, 101, 1-5.	3.9	3
98	Evidence of anomalous switching of the in-plane magnetic easy axis with temperature in Fe₃O₄ film on SrTiO₃:Nb by ν-MOKE and ferromagnetic resonance. Nanoscale, 2019, 11, 19870-19876.	5.6	3
99	Emission characteristics and dynamics of neutral, ionic and molecular species in a laser produced CaF2 plasma. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 276, 107924.	2.3	3
100	Synthesis of smooth amorphous thin films of silicon carbide with controlled properties through pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	2.3	3
101	Rate constants for removal by noble gases of selected rotational levels of methylene 1B1 (0, 14, 0). Chemical Physics Letters, 1993, 214, 227-233.	2.6	2
102	Wavelength Effects In Femtosecond Pulsed Laser Ablation And Deposition. , 2010, , .		2
103	Spatiotemporally resolved optical emission spectroscopy and harmonic generation in Cu plasmas. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 174, 106001.	2.9	2
104	From the Lab to the Scaffold: Laser Cleaning of Polychromed Architectonic Elements and Sculptures. Springer Proceedings in Physics, 2007, , 185-189.	0.2	2
105	Quenching of single rovibronic states of methylene 1B1. Chemical Physics, 1994, 186, 133-142.	1.9	1
106	Laser Paint Interactions Studied by Optical Emission Spectroscopy and Pump and Probe Analysis of the Ablation Plume. Springer Proceedings in Physics, 2005, , 277-284.	0.2	1
107	Low-order harmonic generation in a ZnS laser ablation plasma. Journal of Physics: Conference Series, 2015, 635, 122002.	0.4	1
108	Fluence dependent electrical conductivity in aluminium thin films grown by infrared pulsed laser deposition. Applied Surface Science, 2016, 387, 1188-1194.	6.1	1

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109	A Comprehensive Study of the Coloration Effect Associated with Laser Cleaning of Pollution Encrustations from Stonework. , 2007, , 105-114.		1
110	LIBS analysis of metal artefacts from Sucevita Monastery, Romania. , 2008, , 133-139.		1
111	Laser Nanofabrication of Soft Matter. Springer Series in Materials Science, 2014, , 325-344.	0.6	1
112	Laser Removal of Protective Treatments on Limestone. , 2005, , 149-155.		0
113	A comprehensive study of the coloration effect associated with laser cleaning of pollution encrustations from stonework. , 0, , .		0
114	Fundamental studies of the effect of molecular weight on the UV laser ablation of polymers. , 0, , .		0
115	Effect of molecular weight on the physicochemical modifications induced in the UV laser ablation of doped polymers. Journal of Physics: Conference Series, 2007, 59, 193-197.	0.4	0
116	Structural and magnetic characterization of magnetite deposits prepared by infrared pulsed laser deposition. , 2013, , .		0
117	Nonlinear Optics in Laser Ablation Plasmas. Springer Series in Materials Science, 2018, , 361-385.	0.6	0
118	Laser cleaning and multi-method diagnostics of textile pieces of art. , 2008, , 371-374.		0