

# Mohamed Oujja

## List of Publications by Year in descending order

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118  
papers

2,276  
citations

186265

28  
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302126

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119  
all docs

119  
docs citations

119  
times ranked

2098  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Spectroscopic and Microscopic Characterization of Flashed Glasses from Stained Glass Windows. Applied Sciences (Switzerland), 2022, 12, 5760.	2.5	5
3	Characterization of medieval-like glass alteration layers by laser spectroscopy and nonlinear optical microscopy. European Physical Journal Plus, 2021, 136, 1.	2.6	7
4	Multiphoton Excitation Fluorescence Microscopy and Spectroscopic Multianalytical Approach for Characterization of Historical Glass Grisailles. Talanta, 2021, 230, 122314.	5.5	12
5	Emission characteristics and dynamics of neutral, ionic and molecular species in a laser produced CaF <sub>2</sub> plasma. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 276, 107924.	2.3	3
6	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
7	Optical diagnostics of gold plasmas produced by infrared laser ablation. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 256, 107308.	2.3	7
8	Spatiotemporally resolved optical emission spectroscopy and harmonic generation in Cu plasmas. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2020, 174, 106001.	2.9	2
9	In-Depth Analysis of Egg-Tempera Paint Layers by Multiphoton Excitation Fluorescence Microscopy. Sustainability, 2020, 12, 3831.	3.2	9
10	Imaging spectroscopy of Ag plasmas produced by infrared nanosecond laser ablation. Journal of Analytical Atomic Spectrometry, 2019, 34, 489-497.	3.0	12
11	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.	5.6	3
12	Bulk and surface characterisation of micrometer-thick cobalt ferrite films grown by IR PLD. Applied Surface Science, 2019, 470, 917-922.	6.1	14
13	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
14	Integrating LIBS LIF Raman into a single multi-spectroscopic mobile device for in situ cultural heritage analysis. , 2019, , .		6
15	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
16	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
17	X-ray and ion irradiation effects on azurite, malachite and alizarin pictorial models. Microchemical Journal, 2018, 137, 381-391.	4.5	15
18	Nonlinear Optics in Laser Ablation Plasmas. Springer Series in Materials Science, 2018, , 361-385.	0.6	0

#	ARTICLE	IF	CITATIONS
19	Observation of middle-sized metal clusters in femtosecond laser ablation plasmas through nonlinear optics. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16956-16965.	2.8	22
20	Detecting molecular changes in UV laser-ablated oil/diterpenoid resin coatings using micro-Raman spectroscopy and Laser Induced Fluorescence. <i>Microchemical Journal</i> , 2018, 141, 12-24.	4.5	6
21	Effect of wavelength, deposition temperature and substrate type on cobalt ferrite thin films grown by pulsed laser deposition. <i>Applied Surface Science</i> , 2018, 452, 19-31.	6.1	29
22	Influence of wavelength on the laser removal of lichens colonizing heritage stone. <i>Applied Surface Science</i> , 2017, 399, 758-768.	6.1	27
23	Nonlinear imaging microscopy for assessing structural and photochemical modifications upon laser removal of dammar varnish on photosensitive substrates. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 22836-22843.	2.8	21
24	Harmonic generation by atomic and nanoparticle precursors in a ZnS laser ablation plasma. <i>Applied Surface Science</i> , 2017, 392, 572-580.	6.1	19
25	Fluence dependent electrical conductivity in aluminium thin films grown by infrared pulsed laser deposition. <i>Applied Surface Science</i> , 2016, 387, 1188-1194.	6.1	1
26	Evaluation of laser cleaning for the restoration of tarnished silver artifacts. <i>Applied Surface Science</i> , 2016, 387, 118-127.	6.1	41
27	Unconventional properties of nanometric FeO(111) films on Ru(0001): stoichiometry and surface structure. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1850-1859.	5.5	24
28	Spectroscopic assessment of the UV laser removal of varnishes from painted surfaces. <i>Microchemical Journal</i> , 2016, 124, 792-803.	4.5	21
29	Low-order harmonic generation in a ZnS laser ablation plasma. <i>Journal of Physics: Conference Series</i> , 2015, 635, 122002.	0.4	1
30	Mössbauer and Magnetic Properties of Coherently Mixed Magnetite-Cobalt Ferrite Grown by Infrared Pulsed-Laser Deposition. <i>Croatica Chemica Acta</i> , 2015, 88, 453-460.	0.4	12
31	Multianalytical characterization of Late Roman glasses including nanosecond and femtosecond laser induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1590-1599.	3.0	21
32	Frequency mixing in boron carbide laser ablation plasmas. <i>Applied Surface Science</i> , 2015, 336, 53-58.	6.1	8
33	Infrared and ultraviolet laser removal of crustose lichens on dolomite heritage stone. <i>Applied Surface Science</i> , 2015, 346, 248-255.	6.1	27
34	Self-organized single crystal mixed magnetite/cobalt ferrite films grown by infrared pulsed-laser deposition. <i>Applied Surface Science</i> , 2015, 359, 480-485.	6.1	11
35	Micrometric rods grown by nanosecond pulsed laser deposition of boron carbide. <i>Applied Surface Science</i> , 2015, 328, 170-176.	6.1	11
36	Platinum Nanoparticles as Photoactive Substrates for Mass Spectrometry and Spectroscopy Sensors. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11432-11439.	3.1	28

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37	Characterization of laser-induced plasmas of nucleobases: Uracil and thymine. <i>Applied Surface Science</i> , 2014, 302, 299-302.	6.1	9
38	Laser Nanofabrication of Soft Matter. <i>Springer Series in Materials Science</i> , 2014, , 325-344.	0.6	1
39	Stoichiometric magnetite grown by infrared nanosecond pulsed laser deposition. <i>Applied Surface Science</i> , 2013, 282, 642-651.	6.1	17
40	Laser-induced periodic surface structuring of biopolymers. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 110, 683-690.	2.3	47
41	Laser induced breakdown spectroscopy for analysis and characterization of degradation pathologies of Roman glasses. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2013, 87, 114-120.	2.9	21
42	Nd-YAG laser irradiation damages to <i>Verrucaria nigrescens</i> . <i>International Biodeterioration and Biodegradation</i> , 2013, 84, 281-290.	3.9	33
43	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.	3.9	35
44	Low-order harmonic generation in nanosecond laser ablation plasmas of carbon containing materials. <i>Applied Surface Science</i> , 2013, 278, 33-37.	6.1	25
45	Room temperature in-plane $\sim 100^\circ$ magnetic easy axis for $\text{Fe}_3\text{O}_4/\text{SrTiO}_3(001):\text{Nb}$ grown by infrared pulsed laser deposition. <i>Journal of Applied Physics</i> , 2013, 114, .	2.5	37
46	Structural and magnetic characterization of magnetite deposits prepared by infrared pulsed laser deposition. , 2013, , .		0
47	Laser nanostructuring of polymers: Ripples and applications. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	10
48	Generation of low-order harmonics in laser ablation plasmas. <i>Molecular Physics</i> , 2012, 110, 1651-1657.	1.7	12
49	Low-order harmonic generation in metal ablation plasmas in nanosecond and picosecond laser regimes. <i>Journal of Applied Physics</i> , 2012, 111, 043111.	2.5	34
50	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.	6.1	43
51	Practical issues in laser cleaning of stone and painted artefacts: optimisation procedures and side effects. <i>Applied Physics A: Materials Science and Processing</i> , 2012, 106, 447-464.	2.3	82
52	Laser-induced fluorescence and FT-Raman spectroscopy for characterizing patinas on stone substrates. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 1433-1441.	3.7	18
53	UV laser removal of varnish on tempera paints with nanosecond and femtosecond pulses. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4625.	2.8	27
54	Harmonic generation in ablation plasmas of wide bandgap semiconductors. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 10755.	2.8	35

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55	Laser cleaning of 19th century Congo rattan mats. Applied Surface Science, 2011, 257, 9935-9940.	6.1	7
56	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
57	Wavelength Effects In Femtosecond Pulsed Laser Ablation And Deposition. , 2010, , .		2
58	Effectiveness of antigraffiti treatments in connection with penetration depth determined by different techniques. Journal of Cultural Heritage, 2010, 11, 297-303.	3.3	27
59	Femtosecond laser deposition of TiO <sub>2</sub> by laser induced forward transfer. Thin Solid Films, 2010, 518, 5525-5529.	1.8	10
60	CaF <sub>2</sub> ablation plumes as a source of CaF molecules for harmonic generation. Physical Review A, 2010, 81, .	2.5	35
61	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
62	Three dimensional microstructuring of biopolymers by femtosecond laser irradiation. Applied Physics Letters, 2009, 95, 263703.	3.3	31
63	Modeling the dynamics of one laser pulse surface nanofoaming of biopolymers. Applied Physics A: Materials Science and Processing, 2009, 94, 719-729.	2.3	21
64	Nanosecond pulsed laser deposition of TiO <sub>2</sub> : nanostructure and morphology of deposits and plasma diagnosis. Thin Solid Films, 2009, 517, 6546-6552.	1.8	29
65	Femtosecond pulsed laser deposition of nanostructured TiO <sub>2</sub> films. Applied Surface Science, 2009, 255, 5206-5210.	6.1	35
66	Dynamics of One Laser Pulse Surface Nanofoaming of Biopolymers. Journal of Laser Micro Nanoengineering, 2009, 4, 152-158.	0.1	4
67	Evaluation of femtosecond laser pulse irradiation of ancient parchment. Applied Surface Science, 2008, 255, 3179-3183.	6.1	17
68	Nanofoaming dynamics in biopolymers by femtosecond laser irradiation. Applied Physics A: Materials Science and Processing, 2008, 93, 209-213.	2.3	18
69	Pulsed laser deposition of TiO <sub>2</sub> : diagnostic of the plume and characterization of nanostructured deposits. Applied Physics A: Materials Science and Processing, 2008, 93, 735-740.	2.3	30
70	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
71	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
72	Laser induced foaming and chemical modifications of gelatine films. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 193, 187-192.	3.9	40

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73	Interaction of femtosecond laser pulses with tempera paints. Applied Surface Science, 2008, 255, 2675-2681.	6.1	27
74	LIBS analysis of metal artefacts from Sucevita Monastery, Romania. , 2008, , 133-139.		1
75	Laser cleaning and multi-method diagnostics of textile pieces of art. , 2008, , 371-374.		0
76	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
77	UV, visible and IR laser interaction with gelatine. Journal of Physics: Conference Series, 2007, 59, 571-574.	0.4	24
78	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
79	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
80	IR laser ablation of doped poly(methyl methacrylate). Applied Surface Science, 2007, 253, 6442-6446.	6.1	6
81	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
82	Nanofoaming in the surface of biopolymers by femtosecond pulsed laser irradiation. Applied Surface Science, 2007, 254, 1179-1184.	6.1	32
83	Lead determination in glasses by laser-induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 94-100.	2.9	34
84	Submicron foaming in gelatine by nanosecond and femtosecond pulsed laser irradiation. Applied Surface Science, 2007, 253, 6420-6424.	6.1	28
85	Characterization of cinematographic films by Laser Induced Breakdown Spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2007, 62, 1612-1617.	2.9	13
86	A Comprehensive Study of the Coloration Effect Associated with Laser Cleaning of Pollution Encrustations from Stonework. , 2007, , 105-114.		1
87	From the Lab to the Scaffold: Laser Cleaning of Polychromed Architectonic Elements and Sculptures. Springer Proceedings in Physics, 2007, , 185-189.	0.2	2
88	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
89	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
90	Submicro foaming in biopolymers by UV pulsed laser irradiation. , 2006, 6261, 404.		4

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91	Laser-induced fluorescence and thermoluminescence response of a Na <sup>+</sup> Ca rich silicate. Radiation Measurements, 2006, 41, 971-975.	1.4	6
92	Pulsed laser deposition of polymers doped with fluorescent molecular sensors. Applied Physics A: Materials Science and Processing, 2006, 84, 171-180.	2.3	17
93	Infrared and ultraviolet laser ablation mechanisms of SiO. Applied Physics A: Materials Science and Processing, 2006, 85, 33-37.	2.3	6
94	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
95	Laser Removal of Protective Treatments on Limestone. , 2005, , 149-155.		0
96	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
97	Influence of polymer molecular weight on the UV ablation of doped poly(methyl methacrylate). Applied Surface Science, 2005, 248, 254-258.	6.1	21
98	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
99	Laser cleaning of terracotta decorations of the portal of Palos of the Cathedral of Seville. Journal of Cultural Heritage, 2005, 6, 321-327.	3.3	17
100	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
101	Analysis of corroded glasses by laser induced breakdown spectroscopy. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2005, 60, 1155-1162.	2.9	59
102	Examination of photoproducts in the ablation plume of doped PMMA. Applied Physics A: Materials Science and Processing, 2004, 79, 1357-1360.	2.3	10
103	Spectroscopic studies of laser ablation plumes of artwork materials. Applied Surface Science, 2003, 211, 128-135.	6.1	11
104	Laser removal of water repellent treatments on limestone. Applied Surface Science, 2003, 219, 290-299.	6.1	22
105	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
106	Effect of wavelength on the laser cleaning of polychromes on wood. Journal of Cultural Heritage, 2003, 4, 243-249.	3.3	26
107	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
108	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

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109	Real time study of the infrared multiphoton dissociation of vinylbromide. Journal of Photochemistry and Photobiology A: Chemistry, 1999, 125, 1-11.	3.9	4
110	IR and UV laser-induced photolysis of 2-chloroethenylsilane. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 110, 107-113.	3.9	8
111	Multiphoton Dissociation of Phenylsilane Upon Excitation at 212.5 NM. Laser Chemistry, 1996, 16, 157-166.	0.5	6
112	HCL(B1 $\hat{a}$ +) and HBr(B1 $\hat{a}$ +) Emission From the Ultraviolet Multiphoton Dissociation of Vinyl Chloride and Bromide. Laser Chemistry, 1996, 16, 207-218.	0.5	3
113	ArF laser dissociation of trisilane. Journal of Photochemistry and Photobiology A: Chemistry, 1996, 101, 1-5.	3.9	3
114	Photodissociation of ketene with a narrow-band tunable laser around 212.5 nm. Chemical Physics Letters, 1995, 237, 367-372.	2.6	10
115	Quenching of single rovibronic states of methylene 1B1. Chemical Physics, 1994, 186, 133-142.	1.9	1
116	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
117	A comprehensive study of the coloration effect associated with laser cleaning of pollution encrustations from stonework. , 0, , .		0
118	Fundamental studies of the effect of molecular weight on the UV laser ablation of polymers. , 0, , .		0