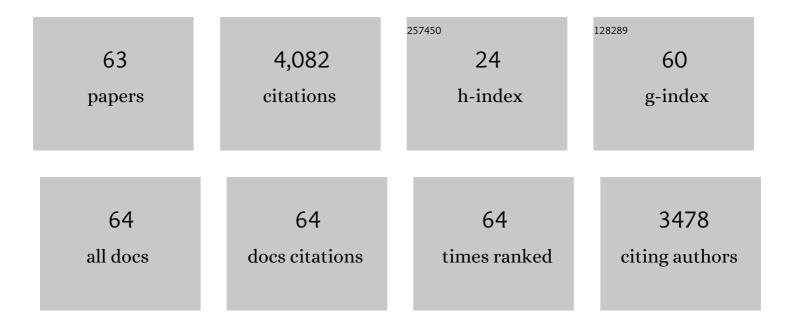
Mohamed ElKabbash

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Femtosecond laserâ€produced optical absorbers for solarâ€ŧhermal energy harvesting. EcoMat, 2022, 4, .	11.9	6
2	Switchable Gratings for Ultracompact and Ultrahigh Modulation Depth Plasmonic Switches. Plasmonics, 2022, 17, 1361-1368.	3.4	1
3	Singleâ€Step and Sustainable Fabrication of Ni(OH) ₂ /Ni Foam Water Splitting Catalysts via Electric Field Assisted Pulsed Laser Ablation in Liquid. ChemElectroChem, 2021, 8, 209-217.	3.4	13
4	Fano-resonant ultrathin film optical coatings. Nature Nanotechnology, 2021, 16, 440-446.	31.5	51
5	Ultrabroadband, compact, polarization independent and efficient metasurface-based power splitter on lithium niobate waveguides. Optics Express, 2021, 29, 8160.	3.4	2
6	Significantly enhanced electrocatalytic activity of copper for hydrogen evolution reaction through femtosecond laser blackening. International Journal of Hydrogen Energy, 2021, 46, 10783-10788.	7.1	15
7	Reconfigurable metasurface-based 1 × 2 waveguide switch. Photonics Research, 2021, 9, 2104.	7.0	15
8	Femtosecond and picosecond laser fabrication for long-term superhydrophilic metal surfaces. Optics and Laser Technology, 2021, 143, 107241.	4.6	18
9	Third-order nonlinear optical effects of silver nanoparticles and third harmonic generation from their plasma plumes. Optik, 2021, 245, 167680.	2.9	4
10	Multifractal characterization of femtosecond laser-induced herringbone patterns. JPhys Photonics, 2021, 3, 015001.	4.6	0
11	Imaging nanostructure phase transition through ultrafast far-field optical ultramicroscopy. Cell Reports Physical Science, 2021, 2, 100651.	5.6	1
12	Creating superhydrophobic and antibacterial surfaces on gold by femtosecond laser pulses. Applied Surface Science, 2020, 506, 144952.	6.1	102
13	Solar-trackable super-wicking black metal panel for photothermal water sanitation. Nature Sustainability, 2020, 3, 938-946.	23.7	139
14	Boosting Perovskite Photodetector Performance in NIR Using Plasmonic Bowtie Nanoantenna Arrays. Small, 2020, 16, e2001417.	10.0	21
15	Multipronged heat-exchanger based on femtosecond laser-nano/microstructured Aluminum for thermoelectric heat scavengers. Nano Energy, 2020, 75, 104987.	16.0	21
16	Comparative study of femtosecond laser-induced structural colorization in water and air. Nanoscale Advances, 2020, 2, 2958-2967.	4.6	15
17	Exciton dynamics in two-dimensional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Mo</mml:mi><mml:msub><mml:m mathvariant="normal">S<mml:mn>2</mml:mn></mml:m </mml:msub></mml:mrow> on a hyperbolic metamaterial-based nanophotonic platform. Physical Review B. 2020. 101</mml:math 	ni 3.2	12
18	Ultra-smooth ultrathin silver films deposited on acid treated Silicon substrates. Nano Express, 2020, 101, . 1, 020012.	2.4	0

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19	Spectral absorption control of femtosecond laser-treated metals and application in solar-thermal devices. Light: Science and Applications, 2020, 9, 14.	16.6	63
20	1-D Metal-Dielectric-Metal Grating Structure as an Ultra-Narrowband Perfect Plasmonic Absorber in the Visible and Its Application in Glucose Detection. Plasmonics, 2020, 15, 1339-1350.	3.4	13
21	Dielectric Nanoaperture Metasurfaces in Silicon Waveguides for Efficient and Broadband Mode Conversion with an Ultrasmall Footprint. Advanced Optical Materials, 2020, 8, 2000529.	7.3	16
22	Generalized emptying criteria for finite-lengthed capillary. Physical Review Fluids, 2020, 5, .	2.5	5
23	Dynamic control of spontaneous emission rate using tunable hyperbolic metamaterials. Optics Letters, 2020, 45, 1671.	3.3	16
24	Thin-film perfect infrared absorbers over single- and dual-band atmospheric windows. Optics Letters, 2020, 45, 2800.	3.3	12
25	Plasmonic analogue of geometric diodes realizing asymmetric optical transmission. Optics Letters, 2020, 45, 3937.	3.3	2
26	SERS study on the synergistic effects of electric field enhancement and charge transfer in an Ag ₂ S quantum dots/plasmonic bowtie nanoantenna composite system. Photonics Research, 2020, 8, 548.	7.0	16
27	Simultaneous implementation of antireflection and antitransmission through multipolar interference in plasmonic metasurfaces and applications in optical absorbers and broadband polarizers. Nanophotonics, 2020, 9, 4529-4538.	6.0	11
28	Spatial Wavefunction Characterization of Femtosecond Pulses at Single-Photon Level. Research, 2020, 2020, 2421017.	5.7	3
29	Ultrathin-film optical coating for angle-independent remote hydrogen sensing. Measurement Science and Technology, 2020, 31, 115201.	2.6	6
30	Formation of controllable 1D and 2D periodic surface structures on cobalt by femtosecond double pulse laser irradiation. Applied Physics Letters, 2019, 115, .	3.3	33
31	Hydrogen Sensing Using Thin-Film Perfect Light Absorber. ACS Photonics, 2019, 6, 1889-1894.	6.6	25
32	Perfect Light Absorption in Thin and Ultra-Thin Films and Its Applications. Progress in Optical Science and Photonics, 2019, , 3-27.	0.5	0
33	Creating Superhydrophobic Polymer Surfaces with Superstrong Resistance to Harsh Cleaning and Mechanical Abrasion Fabricated by Scalable One‣tep Thermalâ€Imprinting. Advanced Materials Interfaces, 2019, 6, 1900240.	3.7	11
34	Highly Floatable Superhydrophobic Metallic Assembly for Aquatic Applications. ACS Applied Materials & Interfaces, 2019, 11, 48512-48517.	8.0	28
35	Generalized Brewster Angle Effect in Thin-Film Optical Absorbers and Its Application for Graphene Hydrogen Sensing. ACS Photonics, 2019, 6, 1610-1617.	6.6	42
36	Plasmonic metasurfaces with 42.3% transmission efficiency in the visible. Light: Science and Applications, 2019, 8, 53.	16.6	51

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37	Cooperative Energy Transfer Controls the Spontaneous Emission Rate Beyond Field Enhancement Limits. Physical Review Letters, 2019, 122, 203901.	7.8	12
38	Maskless laser nano-lithography of glass through sequential activation of multi-threshold ablation. Applied Physics Letters, 2019, 114, .	3.3	13
39	Phaseâ€Changeâ€Materialâ€Based Lowâ€Loss Visibleâ€Frequency Hyperbolic Metamaterials for Ultrasensitive Labelâ€Free Biosensing. Advanced Optical Materials, 2019, 7, 1900081.	7.3	74
40	Maskless formation of uniform subwavelength periodic surface structures by double temporally-delayed femtosecond laser beams. Applied Surface Science, 2019, 471, 516-520.	6.1	29
41	Quasi-rhombus metasurfaces as multimode interference couplers for controlling the propagation of modes in dielectric-loaded waveguides. Optics Letters, 2019, 44, 1654.	3.3	10
42	Formation of uniform two-dimensional subwavelength structures by delayed triple femtosecond laser pulse irradiation. Optics Letters, 2019, 44, 2278.	3.3	9
43	Colorful multifunctional surfaces produced by femtosecond laser pulses. Optical Materials Express, 2019, 9, 1033.	3.0	16
44	Heat-induced perfect light absorption in thin-film metasurfaces for structural coloring [Invited]. Optical Materials Express, 2019, 9, 1386.	3.0	11
45	Femtosecond laser induced periodic surface structures for the enhancement of field emission properties of tungsten. Optical Materials Express, 2019, 9, 3183.	3.0	11
46	Large-Area Silver–Stibnite Nanoporous Plasmonic Films for Label-Free Biosensing. ACS Applied Materials & Interfaces, 2018, 10, 34991-34999.	8.0	24
47	Designer Perfect Light Absorption Using Ultrathin Lossless Dielectrics on Absorptive Substrates. Advanced Optical Materials, 2018, 6, 1800672.	7.3	26
48	Ultrafast transient optical loss dynamics in exciton–plasmon nano-assemblies. Nanoscale, 2017, 9, 6558-6566.	5.6	15
49	Direct visualization of the complete evolution of femtosecond laser-induced surface structural dynamics of metals. Light: Science and Applications, 2017, 6, e16256-e16256.	16.6	104
50	Tunable Black Gold: Controlling the Nearâ€Field Coupling of Immobilized Au Nanoparticles Embedded in Mesoporous Silica Capsules. Advanced Optical Materials, 2017, 5, 1700617.	7.3	20
51	Controlling periodic ripple microstructure formation on 4H-SiC crystal with three time-delayed femtosecond laser beams of different linear polarizations. Optics Express, 2017, 25, 5156.	3.4	16
52	Enhancing the Angular Sensitivity of Plasmonic Sensors Using Hyperbolic Metamaterials. Advanced Optical Materials, 2016, 4, 1767-1772.	7.3	69
53	A multiband perfect absorber based on hyperbolic metamaterials. Scientific Reports, 2016, 6, 26272.	3.3	77
54	Multifunctional surfaces produced by femtosecond laser pulses. Journal of Applied Physics, 2015, 117, .	2.5	360

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#	Article	IF	CITATIONS
55	Direct femtosecond laser surface nano/microstructuring and its applications. Laser and Photonics Reviews, 2013, 7, 385-407.	8.7	858
56	Making human enamel and dentin surfaces superwetting for enhanced adhesion. Applied Physics Letters, 2011, 99, .	3.3	24
57	Laser turns silicon superwicking. Optics Express, 2010, 18, 6455.	3.4	133
58	Metal pumps liquid uphill. Applied Physics Letters, 2009, 94, .	3.3	127
59	Brighter Light Sources from Black Metal: Significant Increase in Emission Efficiency of Incandescent Light Sources. Physical Review Letters, 2009, 102, 234301.	7.8	177
60	Colorizing metals with femtosecond laser pulses. Applied Physics Letters, 2008, 92, .	3.3	491
61	Femtosecond laser blackening of platinum. Journal of Applied Physics, 2008, 104, .	2.5	103
62	Femtosecond laser nanostructuring of metals. Optics Express, 2006, 14, 2164.	3.4	201
63	Enhanced absorptance of gold following multipulse femtosecond laser ablation. Physical Review B, 2005, 72, .	3.2	277