

Zouheir Sekkat

List of Publications by Year in descending order

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87
papers

3,843
citations

172207

29
h-index

123241

61
g-index

88
all docs

88
docs citations

88
times ranked

2842
citing authors

#	ARTICLE	IF	CITATIONS
1	Metallized tip amplification of near-field Raman scattering. Optics Communications, 2000, 183, 333-336.	1.0	634
2	Photoassisted poling of azo dye doped polymeric films at room temperature. Applied Physics B, Photophysics and Laser Chemistry, 1992, 54, 486-489.	1.5	267
3	Photoisomerization and second harmonic generation in disperse red one-doped and -functionalized poly(methyl methacrylate) films. Chemistry of Materials, 1993, 5, 229-236.	3.2	261
4	Near-field Raman scattering enhanced by a metallized tip. Chemical Physics Letters, 2001, 335, 369-374.	1.2	252
5	Photoinduced orientation of azo dyes in polymeric films. Characterization of molecular angular mobility. Synthetic Metals, 1993, 54, 373-381.	2.1	185
6	Reorientation Mechanism of Azobenzenes within the Trans \rightarrow Cis Photoisomerization. The Journal of Physical Chemistry, 1995, 99, 17226-17234.	2.9	153
7	Photoisomerization of azobenzene derivatives in polymeric thin films. Journal of Applied Physics, 1992, 71, 1543-1545.	1.1	135
8	Light-induced orientation in a high glass transition temperature polyimide with polar azo dyes in the side chain. Journal of the Optical Society of America B: Optical Physics, 1996, 13, 1713.	0.9	108
9	Laser nanofabrication in photoresists and azopolymers. Laser and Photonics Reviews, 2014, 8, 1-26.	4.4	87
10	Fano resonance and plasmon-induced transparency in waveguide-coupled surface plasmon resonance sensors. Applied Physics Express, 2015, 8, 022201.	1.1	86
11	Polarization effects in photoisomerization of azo dyes in polymeric films. Applied Physics B, Photophysics and Laser Chemistry, 1991, 53, 121-123.	1.5	84
12	Polarization storage by nonlinear orientational hole burning in azo dye-containing polymer films. Applied Physics Letters, 2004, 85, 351-353.	1.5	64
13	Light-induced orientation in azo-polyimide polymers 325 \AA below the glass transition temperature. Journal of the Optical Society of America B: Optical Physics, 1997, 14, 829.	0.9	63
14	Creation of second-order nonlinear optical effects by photoisomerization of polar azo dyes in polymeric films: theoretical study of steady-state and transient properties. Journal of the Optical Society of America B: Optical Physics, 1995, 12, 1855.	0.9	62
15	Optical polarizer made of uniaxially aligned short single-wall carbon nanotubes embedded in a polymer film. Physical Review B, 2008, 77, .	1.1	62
16	Resolution Estimation of the Au, Ag, Cu, and Al Single- and Double-Layer Surface Plasmon Sensors in the Ultraviolet, Visible, and Infrared Regions. Plasmonics, 2013, 8, 1585-1595.	1.8	61
17	Plasmonic coupled modes in metal-dielectric multilayer structures: Fano resonance and giant field enhancement. Optics Express, 2016, 24, 20080.	1.7	60
18	Pure Photoorientation of Azo Dye in Polyurethanes and Quantification of Orientation of Spectrally Overlapping Isomers. Journal of Physical Chemistry B, 2002, 106, 12407-12417.	1.2	59

#	ARTICLE	IF	CITATIONS
19	Observation of Fano line shapes arising from coupling between surface plasmon polariton and waveguide modes. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	56
20	Surface Plasmon Investigations of Light-Induced Modulation in the Optical Thickness of Molecularly Thin Photochromic Layers. <i>Langmuir</i> , 1996, 12, 2976-2980.	1.6	54
21	High quality nano-patterned thin films of the coordination compound {Fe(pyrazine)[Pt(CN) ₄] deposited layer-by-layer. <i>New Journal of Chemistry</i> , 2011, 35, 2089.	1.4	53
22	Extremely narrow resonances, giant sensitivity and field enhancement in low-loss waveguide sensors. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 065004.	1.0	49
23	The anisotropic nanomovement of azo-polymers. <i>Optics Express</i> , 2007, 15, 652.	1.7	48
24	Nanomovement of Azo Polymers Induced by Longitudinal Fields. <i>ACS Photonics</i> , 2014, 1, 190-197.	3.2	39
25	Optical tweezing by photomigration. <i>Applied Optics</i> , 2016, 55, 259.	2.1	39
26	Two-photon isomerization and orientation of photoisomers in thin films of polymer. <i>Optics Communications</i> , 2003, 222, 269-276.	1.0	37
27	Two-photon induced polymer nanomovement. <i>Optics Express</i> , 2008, 16, 14106.	1.7	36
28	Light-tunable Fano resonance in metal-dielectric multilayer structures. <i>Scientific Reports</i> , 2016, 6, 33144.	1.6	35
29	Photoassisted Holography in Azo Dye Doped Polymer Films. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11317-11322.	1.2	30
30	Individualized optically induced orientation of photochemical isomers. <i>Chemical Physics Letters</i> , 1999, 300, 421-428.	1.2	29
31	Isomeric orientation by two-photon excitation: a theoretical study. <i>Optics Communications</i> , 2004, 229, 291-303.	1.0	29
32	Optical orientation of azo dye in polymer films at high pressure. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2001, 18, 1854.	0.9	28
33	Ordering of azobenzenes by two-photon isomerization. <i>Journal of Chemical Physics</i> , 2006, 125, 164718.	1.2	28
34	Asymmetric surface plasmon resonances revisited as Fano resonances. <i>Physical Review B</i> , 2018, 97, .	1.1	28
35	Vectorial motion of matter induced by light fueled molecular machines. <i>OSA Continuum</i> , 2018, 1, 668.	1.8	28
36	Photo-orientation by multiphoton photoselection. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2006, 23, 868.	0.9	27

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37	Long-range surface plasmons supported by a bilayer metallic structure for sensing applications. Applied Optics, 2015, 54, 2151.	0.9	27
38	Anticrossing Behavior of Surface Plasmon Polariton Dispersions in Metal-Insulator-Metal Structures. Plasmonics, 2016, 11, 433-440.	1.8	26
39	Surface relief gratings in azo-polymers revisited. Journal of Applied Physics, 2018, 124, .	1.1	26
40	Nanomovement of azo polymers induced by metal tip enhanced near-field irradiation. Applied Physics Letters, 2007, 91, 091911.	1.5	24
41	Surface plasmon sensing with different metals in single and double layer configurations. Applied Optics, 2012, 51, 6673.	0.9	23
42	Polarization effects in light-tunable Fano resonance in metal-dielectric multilayer structures. Physical Review B, 2017, 95, .	1.1	23
43	Systematic $\langle i \rangle \hat{L} \langle /i \rangle / 21$ resolution achieved in nanofabrication by two-photon-absorption induced polymerization. Journal of Micromechanics and Microengineering, 2019, 29, 035018.	1.5	20
44	Surface Enhanced Visible Absorption of Dye Molecules in the Near-Field of Gold Nanoparticles. Scientific Reports, 2020, 10, 3913.	1.6	20
45	Voxels Optimization in 3D Laser Nanoprinting. Scientific Reports, 2020, 10, 10409.	1.6	20
46	Influence of the polymer structure on the achievement of polar orientation in high glass transition temperature nonlinear optical polyimides by photo-assisted poling. Journal of Polymer Science, Part B: Polymer Physics, 1998, 36, 1669-1677.	2.4	18
47	Resolution Enhancement of Plasmonic Sensors by Metal-Insulator-Metal Structures. Annalen Der Physik, 2018, 530, 1700411.	0.9	18
48	Sodium doping mechanism on sol-gel processed kesterite $\text{Cu}_2\text{ZnSnS}_4$ thin films. Superlattices and Microstructures, 2018, 120, 747-752.	1.4	18
49	Determination of the Optical Thickness of sub 10-nm Thin Metal Films by SPR Experiments. Plasmonics, 2014, 9, 381-387.	1.8	17
50	Line shape engineering of sharp Fano resonance in Al-based metal-dielectric multilayer structure. Journal of Applied Physics, 2017, 122, .	1.1	17
51	Plasmonic mode coupling and thin film sensing in metal-insulator-metal structures. Scientific Reports, 2021, 11, 15093.	1.6	16
52	Model for athermal enhancement of molecular mobility in solid polymers by light. Physical Review E, 2020, 102, 032501.	0.8	14
53	Structural and spectral properties of ZnO nanorods by wet chemical method for hybrid solar cells applications. Materials Letters, 2015, 139, 26-30.	1.3	13
54	Combinatorial and machine learning approaches for the analysis of $\text{Cu}_{2-x}\text{ZnGeSe}_4$: influence of the off-stoichiometry on defect formation and solar cell performance. Journal of Materials Chemistry A, 2021, 9, 10466-10476.	5.2	13

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55	Evanescence-field-coupled guided-mode sensor based on a waveguide grating. <i>Applied Optics</i> , 2015, 54, 4889.	2.1	12
56	Fano resonances in near-field absorption in all-dielectric multilayer structures. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 125003.	1.0	9
57	Quantitative analyses of optically induced birefringence in azo dye containing polymers. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 115401.	1.0	9
58	Synthesis and characterization of Cu ₂ CoSnS ₄ thin film via electrodeposition technique for solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 12487-12492.	1.1	9
59	Enhancement of molecular mobility in solid polymers by light: fundamentals and applications. <i>Applied Physics B: Lasers and Optics</i> , 2022, 128, 1.	1.1	9
60	Light-controllable Fano resonance in azo-dye-doped all-dielectric multilayer structure. <i>Journal of Applied Physics</i> , 2019, 125, 223101.	1.1	8
61	Simulation of photochemically induced motion of matter in gradient light fields. <i>Journal of Applied Physics</i> , 2020, 127, 243106.	1.1	8
62	Optical Characterization of Ultra-Thin Films of Azo-Dye-Doped Polymers Using Ellipsometry and Surface Plasmon Resonance Spectroscopy. <i>Photonics</i> , 2021, 8, 41.	0.9	8
63	Structural and opto-electrical properties of Al doped ZnO sputtered thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 6730-6735.	1.1	6
64	Optical characteristics of ultra-thin metallic films excited at visible range. <i>Thin Solid Films</i> , 2016, 615, 38-43.	0.8	6
65	Fano Approximation as a Fast and Effective Way for Estimating Resonance Characteristics of Surface Plasmon Structures. <i>Plasmonics</i> , 2021, 16, 1001-1011.	1.8	6
66	Fano resonant behaviour of waveguide mode in all-dielectric multilayer structure directly monitored by fluorescence of embedded dye molecules. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 105006.	1.0	5
67	Optical Trapping of Photosoftened Solid Polymers. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26037-26042.	1.5	5
68	Two-photon assisted poling. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 132.	0.9	4
69	Observation of Fano line shape in directional fluorescence emission mediated by coupled planar waveguide modes and interpretation based on Lorentz reciprocity. <i>AIP Advances</i> , 2020, 10, .	0.6	4
70	Light-Tunable Fano Resonance in Metal-Dielectric Multilayer Structures. <i>Springer Series in Optical Sciences</i> , 2018, , 241-260.	0.5	3
71	Wide-range line shape control of Fano-like resonances in all-dielectric multilayer structures based on enhanced light absorption in photochromic waveguide layers. <i>Journal of Applied Physics</i> , 2020, 127, 073103.	1.1	3
72	Dynamical Studies of Optically Induced Orientation Processes in Photochromic Isomers : Experiment and Theory. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 344, 107-112.	0.3	2

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73	Estimation of optical constants of a bio-thin layer (onion epidermis), using SPR spectroscopy. Journal of Optics (United Kingdom), 2014, 16, 125014.	1.0	2
74	On surface relief gratings in azopolymers. , 2018, , .		2
75	Azo-polymers for holographic recording: photo-assisted holography and surface relief gratings. , 2019, , .		2
76	Direct laser writing of submicrometric voxels in two-photon photopolymerization. , 2019, , .		2
77	Coupling of Planar Waveguide Modes in All-Dielectric Multilayer Structures: Monitoring the Dependence of Local Electric Fields on the Coupling Strength. Physical Review Applied, 2021, 16, .	1.5	2
78	Lasers and Plasmonics: SPR Measurements of Metal Thin Films, Clusters and Bio-Layers. International Journal of Behavioral and Consultation Therapy, 2016, , 315-338.	0.4	1
79	An Insight into Pure Ge Based Kesterite Synthesis. , 2019, , .		1
80	Influence of the polymer structure on the achievement of polar orientation in high glass transition temperature nonlinear optical polyimides by photo-assisted poling. , 1998, 36, 1669.		1
81	Plasmonic coupled modes in metal-insulator-metal structures for sensing applications. , 2018, , .		1
82	Light-fueled molecular machines can move matter. , 2018, , .		1
83	Optically induced orientation processes in photochromic isomers. , 0, , .		0
84	Near-field enhanced Raman spectroscopy by a metallized cantilever tip. , 0, , .		0
85	Nanomovement of Azo-Polymers Induced by Tip Enhanced Near-Field. , 2007, , .		0
86	Motion of matter induced by light fueled molecular machines. , 2018, , .		0
87	Photochemical tweezing and surface relief gratings in azo-polymers. , 2019, , .		0