Giuseppe Gigli

List of Publications by Citations

368 papers	12,130 citations	59 h-index	91 g-index
391 ext. papers	13,516 ext. citations	7.7 avg, IF	6.26 L-index

#	Paper	IF	Citations
368	MAPbI3-xClx Mixed Halide Perovskite for Hybrid Solar Cells: The Role of Chloride as Dopant on the Transport and Structural Properties. *Chemistry of Materials*, **2013**, 25, 4613-4618	9.6	658
367	Durable superhydrophobic and antireflective surfaces by trimethylsilanized silica nanoparticles-based sol-gel processing. *Langmuir*, **2009**, 25, 6357-62	4	275
366	Sequential Growth of Magic-Size CdSe Nanocrystals. *Advanced Materials*, **2007**, 19, 548-552	24	259
365	Bright White Organic Light-Emitting Devices from a Single Active Molecular Material. *Advanced Materials*, **2005**, 17, 34-39	24	239
364	Superhydrophobicity due to the hierarchical scale roughness of PDMS surfaces. *Langmuir*, **2008**, 24, 2712-8	4	208
363	Bright White-Light-Emitting Device from Ternary Nanocrystal Composites. *Advanced Materials*, **2006**, 18, 2545-2548	24	189
362	Stark effect in perovskite/TiO2 solar cells: evidence of local interfacial order. *Nano Letters*, **2014**, 14, 2168-74	11.5	182
361	Room-temperature superfluidity in a polariton condensate. *Nature Physics*, **2017**, 13, 837-841	16.2	163
360	Elusive Presence of Chloride in Mixed Halide Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2014**, 5, 3532-8	6.4	160
359	White light emission from blends of blue-emitting organic molecules: A general route to the white organic light-emitting diode?. *Applied Physics Letters*, **2001**, 79, 560-562	3.4	159
358	Superhydrophobic fabrics for oil–water separation through a diamond like carbon (DLC) coating. *Journal of Materials Chemistry A*, **2014**, 2, 6781-6789	13	143
357	Investigating charge dynamics in halide perovskite-sensitized mesostructured solar cells. *Energy and Environmental Science*, **2014**, 7, 1889-1894	35.4	137
356	Tuning Solid-State Photoluminescence Frequencies and Efficiencies of Oligomers Containing One Central Thiophene-S,S-dioxide Unit. *Journal of the American Chemical Society*, **2000**, 122, 11971-11978	16.4	134
355	High Electron Mobility and Ambient Stability in Solution-Processed Perylene-Based Organic Field-Effect Transistors. *Advanced Materials*, **2009**, 21, 1573-1576	24	131
354	"Darker-than-black" PbS quantum dots: enhancing optical absorption of colloidal semiconductor nanocrystals via short conjugated ligands. *Journal of the American Chemical Society*, **2015**, 137, 1875-86	16.4	121
353	All-optical control of the quantum flow of a polariton condensate. *Nature Photonics*, **2011**, 5, 610-614	33.9	120
352	Exploring Light–Matter Interaction Phenomena under Ultrastrong Coupling Regime. *ACS Photonics*, **2014**, 1, 1042-1048	6.3	115

351	High-efficiency oligothiopene-based light-emitting diodes. *Applied Physics Letters*, **1999**, 75, 439-441	3.4	107
350	Hyperbranched anatase TiO2 nanocrystals: nonaqueous synthesis, growth mechanism, and exploitation in dye-sensitized solar cells. *Journal of the American Chemical Society*, **2011**, 133, 19216-39	16.4	106
349	Reversibly Light-Switchable Wettability of Hybrid Organic/Inorganic Surfaces With Dual Micro-/Nanoscale Roughness. *Advanced Functional Materials*, **2009**, 19, 1149-1157	15.6	106
348	Polarized light emitting diode by long-range nanorod self-assembling on a water surface. *ACS Nano*, **2009**, 3, 1506-12	16.7	106
347	Organic single-layer white light-emitting diodes by exciplex emission from spin-coated blends of blue-emitting molecules. *Applied Physics Letters*, **2003**, 82, 334-336	3.4	104
346	Forthcoming perspectives of photoelectrochromic devices: a critical review. *Energy and Environmental Science*, **2016**, 9, 2682-2719	35.4	103
345	Perovskite photovoltachromic cells for building integration. *Energy and Environmental Science*, **2015**, 8, 1578-1584	35.4	102
344	The Bright Side of Perovskites. *Journal of Physical Chemistry Letters*, **2016**, 7, 4322-4334	6.4	100
343	White organic light-emitting devices with CdSe/ZnS quantum dots as a red emitter. *Journal of Applied Physics*, **2005**, 97, 113501	2.5	100
342	Amplified spontaneous emission and efficient tunable laser emission from a substituted thiophene-based oligomer. *Applied Physics Letters*, **2002**, 81, 3534-3536	3.4	98
341	Rigid-Core Oligothiophene-S,S-dioxides with High Photoluminescence Efficiencies Both in Solution and in the Solid State. *Chemistry of Materials*, **2001**, 13, 4112-4122	9.6	97
340	Novel Preparation Method of TiO2-Nanorod-Based Photoelectrodes for Dye-Sensitized Solar Cells with Improved Light-Harvesting Efficiency. *Journal of Physical Chemistry C*, **2010**, 114, 4228-4236	3.8	93
339	Modified Oligothiophenes with High Photo- and Electroluminescence Efficiencies. *Advanced Materials*, **1999**, 11, 1375-1379	24	93
338	Influence of electrotaxis on cell behaviour. *Integrative Biology (United Kingdom)*, **2014**, 6, 817-30	3.7	92
337	Colloidal Arenethiolate-Capped PbS Quantum Dots: Optoelectronic Properties, Self-Assembly, and Application in Solution-Cast Photovoltaics. *Journal of Physical Chemistry C*, **2013**, 117, 13305-13317	3.8	91
336	Solid-State Conformation, Molecular Packing, and Electrical and Optical Properties of Processable Methylated Sexithiophenes. *Journal of the American Chemical Society*, **1999**, 121, 8920-8926	16.4	90
335	A novel phytocannabinoid isolated from Cannabis sativa L. with an in vivo cannabimimetic activity higher than etrahydrocannabinol: Tetrahydrocannabiphorol. *Scientific Reports*, **2019**, 9, 20335	4.9	87
334	Multicolor oligothiophene-based light-emitting diodes. *Applied Physics Letters*, **2001**, 78, 1493-1495	3.4	85

333	Increase of charge carriers density and reduction of Hall mobilities in oxygen-plasma treated indium tin oxide anodes. *Applied Physics Letters*, **1999**, 75, 19-21	3.4	83
332	Hybrid Light-Emitting Diodes from Microcontact-Printing Double-Transfer of Colloidal Semiconductor CdSe/ZnS Quantum Dots onto Organic Layers. *Advanced Materials*, **2008**, 20, 1886-1891	24	82
331	Ultrathin TiO2(B) nanorods with superior lithium-ion storage performance. *ACS Applied Materials & Interfaces*, **2014**, 6, 1933-43	9.5	79
330	Room-Temperature Nanoimprint Lithography of Non-thermoplastic Organic Films. *Advanced Materials*, **2004**, 16, 525-529	24	79
329	Ultra hydrophobic/superhydrophilic modified cotton textiles through functionalized diamond-like carbon coatings for self-cleaning applications. *Langmuir*, **2013**, 29, 2775-83	4	76
328	Blue light emitting diodes based on fluorescent CdSe/ZnS nanocrystals. *Applied Physics Letters*, **2007**, 90, 051106	3.4	76
327	A successful chemical strategy to induce oligothiophene self-assembly into fibers with tunable shape and function. *Journal of the American Chemical Society*, **2011**, 133, 8654-61	16.4	75
326	Molecular Packing and Photoluminescence Efficiency in Odd-Membered Oligothiophene S,S-Dioxides. *Journal of the American Chemical Society*, **2000**, 122, 9006-9013	16.4	75
325	Influence of chemistry and topology effects on superhydrophobic CF(4)-plasma-treated poly(dimethylsiloxane) (PDMS). *Langmuir*, **2008**, 24, 1833-43	4	72
324	Oligothiophene isothiocyanates as a new class of fluorescent markers for biopolymers. *Journal of the American Chemical Society*, **2001**, 123, 11600-7	16.4	72
323	Magnetic/Silica Nanocomposites as Dual-Mode Contrast Agents for Combined Magnetic Resonance Imaging and Ultrasonography. *Advanced Functional Materials*, **2011**, 21, 2548-2555	15.6	70
322	Effects of plasma treatments for improving extreme wettability behavior of cotton fabrics. *Cellulose*, **2014**, 21, 741-756	5.5	69
321	Optimal enhancement configuration of silica nanoparticles for ultrasound imaging and automatic detection at conventional diagnostic frequencies. *Investigative Radiology*, **2010**, 45, 715-24	10.1	69
320	Multiscale morphology design of hybrid halide perovskites through a polymeric template. *Nanoscale*, **2015**, 7, 18956-63	7.7	67
319	Multifunctional bioinspired sol-gel coatings for architectural glasses. *Building and Environment*, **2010**, 45, 1233-1243	6.5	66
318	Organic Gelators as Growth Control Agents for Stable and Reproducible Hybrid Perovskite-Based Solar Cells. *Advanced Energy Materials*, **2017**, 7, 1602600	21.8	65
317	Growing perovskite into polymers for easy-processable optoelectronic devices. *Scientific Reports*, **2015**, 5, 7725	4.9	65
316	High-speed flow of interacting organic polaritons. *Light: Science and Applications*, **2017**, 6, e16212	16.7	62

315	Oligomer-based organic distributed feedback lasers by room-temperature nanoimprint lithography. *Applied Physics Letters*, **2003**, 83, 2545-2547	3.4	62
314	Microwave-assisted synthesis of thiophene fluorophores, labeling and multilabeling of monoclonal antibodies, and long lasting staining of fixed cells. *Journal of the American Chemical Society*, **2009**, 131, 10892-900	16.4	61
313	Solid-state supramolecular organization, established directly from powder diffraction data, and photoluminescence efficiency of rigid-core oligothiophene-S,S-dioxides. *Journal of the American Chemical Society*, **2003**, 125, 12277-83	16.4	61
312	V-Shaped Thiophene-Based Oligomers with Improved Electroluminescence Properties. *Advanced Functional Materials*, **2005**, 15, 664-670	15.6	61
311	Anchoring stability and photovoltaic properties of new D(-A)2 dyes for dye-sensitized solar cell applications. *Dyes and Pigments*, **2013**, 98, 221-231	4.6	60
310	Two-dimensional hybrid perovskites sustaining strong polariton interactions at room temperature. *Science Advances*, **2019**, 5, eaav9967	14.3	59
309	Rational Design of Molecular Hole-Transporting Materials for Perovskite Solar Cells: Direct versus Inverted Device Configurations. *ACS Applied Materials & Interfaces*, **2017**, 9, 24778-24787	9.5	59
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305	Ultrafast Control and Rabi Oscillations of Polaritons. *Physical Review Letters*, **2014**, 113, 226401	7.4	53
304	Control and ultrafast dynamics of a two-fluid polariton switch. *Physical Review Letters*, **2012**, 109, 266407	7.4	53
303	NiO/MAPbI(3-x)Clx/PCBM: a model case for an improved understanding of inverted mesoscopic solar cells. *ACS Applied Materials & Interfaces*, **2015**, 7, 4283-9	9.5	52
302	White electroluminescence from a microcontact-printing-deposited CdSe/ZnS colloidal quantum-dot monolayer. *Small*, **2008**, 4, 2143-7	11	52
301	Bright oligothiophene N-succinimidyl esters for efficient fluorescent labeling of proteins and oligonucleotides. *Bioconjugate Chemistry*, **2006**, 17, 58-67	6.3	52
300	Poly(-vinyl-alkyloligothiophene) Side-Chain Polymers. Synthesis, Fluorescence, and Morphology. *Macromolecules*, **2004**, 37, 5692-5702	5.5	52
299	Surfactant-free synthesis of pure anatase TiO2 nanorods suitable for dye-sensitized solar cells. *Journal of Materials Chemistry*, **2010**, 20, 7248		51
298	Color engineering by modified oligothiophene blends. *Applied Physics Letters*, **2000**, 77, 2458-2460	3.4	51

297	Topological order and thermal equilibrium in polariton condensates. *Nature Materials*, **2018**, 17, 145-151	27	51
296	New Branched Thiophene-Based Oligomers for Bright Organic Light-Emitting Devices. *Advanced Materials*, **2003**, 15, 2060-2063	24	50
295	Bulk Heterojunction versus Diffused Bilayer: The Role of Device Geometry in Solution p-Doped Polymer-Based Solar Cells. *Journal of Physical Chemistry Letters*, **2012**, 3, 1908-15	6.4	49
294	Live-cell-permeant thiophene fluorophores and cell-mediated formation of fluorescent fibrils. *Journal of the American Chemical Society*, **2011**, 133, 17777-85	16.4	49
293	A Novel pH-Responsive Nanogel for the Controlled Uptake and Release of Hydrophobic and Cationic Solutes. *Journal of Physical Chemistry C*, **2011**, 115, 16347-16353	3.8	49
292	Mechanical Gradient Cues for Guided Cell Motility and Control of Cell Behavior on Uniform Substrates. *Advanced Functional Materials*, **2009**, 19, 2961-2968	15.6	49
291	Molecular-Level Switching of Polymer/Nanocrystal Non-Covalent Interactions and Application in Hybrid Solar Cells. *Advanced Functional Materials*, **2015**, 25, 111-119	15.6	47
290	Toward Cavity Quantum Electrodynamics with Hybrid Photon Gap-Plasmon States. *ACS Nano*, **2016**, 10, 11360-11368	16.7	47
289	Smart windows for building integration: a new architecture for photovoltachromic devices. *ACS Applied Materials & Interfaces*, **2014**, 6, 9290-7	9.5	46
288	White-light-emitting diodes using semiconductor nanocrystals. *Mikrochimica Acta*, **2007**, 159, 207-215	5.8	45
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281	Vortex and half-vortex dynamics in a nonlinear spinor quantum fluid. *Science Advances*, **2015**, 1, e1500807	14.3	42
280	Role of Polymer in Hybrid Polymer/PbS Quantum Dot Solar Cells. *Journal of Physical Chemistry C*, **2015**, 119, 14972-14979	3.8	40

279	Sustainability of Organic Dye-Sensitized Solar Cells: The Role of Chemical Synthesis. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 770-777	8.3	40
278	Visual comfort assessment of smart photovoltachromic windows. *Energy and Buildings*, **2013**, 65, 137-145	7	40
277	Energy savings due to building integration of innovative solid-state electrochromic devices. *Applied Energy*, **2018**, 225, 975-985	10.7	40
276	Flexible carbon nanotube-based composite plates as efficient monolithic counter electrodes for dye solar cells. *ACS Applied Materials & Interfaces*, **2011**, 3, 3625-32	9.5	39
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268	Analysis of impurities of cannabidiol from hemp. Isolation, characterization and synthesis of cannabidibutol, the novel cannabidiol butyl analog. *Journal of Pharmaceutical and Biomedical Analysis*, **2019**, 175, 112752	3.5	37
267	Polarization shaping of Poincar beams by polariton oscillations. *Light: Science and Applications*, **2015**, 4, e350-e350	16.7	37
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263	Self-assembled extracellular matrix protein networks by microcontact printing. *Biomaterials*, **2004**, 25, 1349-53	15.6	36
262	Polymeric rheology modifier allows single-step coating of perovskite ink for highly efficient and stable solar cells. *Nano Energy*, **2018**, 54, 400-408	17.1	36

261	Photovoltachromic device with a micropatterned bifunctional counter electrode. *ACS Applied Materials & Interfaces*, **2014**, 6, 2415-22	9.5	35
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256	A brief review of surface-functionalized cotton fabrics. *Surface Innovations*, **2013**, 1, 140-156	1.9	33
255	Ultra-Bright Near-Infrared Perovskite Light-Emitting Diodes with Reduced Efficiency Roll-off. *Scientific Reports*, **2018**, 8, 15496	4.9	33
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242	White emission from organic light emitting diodes based on energy down-convertion mechanisms. *Synthetic Metals*, **2003**, 139, 675-677	3.6	31
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240	Isolation of a High-Affinity Cannabinoid for the Human CB1 Receptor from a Medicinal Variety: Δ⁸-Tetrahydrocannabutol, the Butyl Homologue of Δ⁸-Tetrahydrocannabinol. *Journal of Natural Products*, **2020**, 83, 88-98	4.9	30
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230	Analytical and preparative enantioseparation and main chiroptical properties of Iridium(III) bis(4,6-difluorophenylpyridinato)picolinato. *Journal of Chromatography A*, **2016**, 1467, 335-346	4.5	27
229	Implications of TiO2 surface functionalization on polycrystalline mixed halide perovskite films and photovoltaic devices. *Journal of Materials Chemistry A*, **2015**, 3, 20811-20818	13	26
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218	Ultrafast optical switching in distributed feedback polymer laser. *Applied Physics Letters*, **2007**, 91, 191108	3.4	24
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