

# Cesare Soci

## List of Publications by Year in descending order

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208  
papers

13,022  
citations

31902

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213  
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213  
docs citations

213  
times ranked

17879  
citing authors

#	ARTICLE	IF	CITATIONS
1	ZnO Nanowire UV Photodetectors with High Internal Gain. Nano Letters, 2007, 7, 1003-1009.	4.5	2,382
2	Lead iodide perovskite light-emitting field-effect transistor. Nature Communications, 2015, 6, 7383.	5.8	641
3	Lead-Free MA <sub>2</sub> CuCl <sub>4</sub> Br <sub>4</sub> Hybrid Perovskites. Inorganic Chemistry, 2016, 55, 1044-1052.	1.9	457
4	Rational Synthesis of p-Type Zinc Oxide Nanowire Arrays Using Simple Chemical Vapor Deposition. Nano Letters, 2007, 7, 323-328.	4.5	433
5	Nanowire Photodetectors. Journal of Nanoscience and Nanotechnology, 2010, 10, 1430-1449.	0.9	344
6	Broadband Emission in Two-Dimensional Hybrid Perovskites: The Role of Structural Deformation. Journal of the American Chemical Society, 2017, 139, 39-42.	6.6	336
7	Direct Heteroepitaxy of Vertical InAs Nanowires on Si Substrates for Broad Band Photovoltaics and Photodetection. Nano Letters, 2009, 9, 2926-2934.	4.5	284
8	Photoconductivity of a Low-Bandgap Conjugated Polymer. Advanced Functional Materials, 2007, 17, 632-636.	7.8	280
9	X-ray Scintillation in Lead Halide Perovskite Crystals. Scientific Reports, 2016, 6, 37254.	1.6	271
10	Highly Efficient Thermally Co-evaporated Perovskite Solar Cells and Mini-modules. Joule, 2020, 4, 1035-1053.	11.7	257
11	GaAs/AlGaAs Nanowire Photodetector. Nano Letters, 2014, 14, 2688-2693.	4.5	256
12	Method for increasing the photoconductive response in conjugated polymer/fullerene composites. Applied Physics Letters, 2006, 89, 252105.	1.5	240
13	Roadmap on plasmonics. Journal of Optics (United Kingdom), 2018, 20, 043001.	1.0	240
14	Nanoporous Walls on Macroporous Foam: Rational Design of Electrodes to Push Areal Pseudocapacitance. Advanced Materials, 2012, 24, 4186-4190.	11.1	239
15	Light emission from an ambipolar semiconducting polymer field-effect transistor. Applied Physics Letters, 2005, 87, 253511.	1.5	219
16	Ultrafast Electron Transfer and Decay Dynamics in a Small Band Gap Bulk Heterojunction Material. Advanced Materials, 2007, 19, 2307-2312.	11.1	208
17	Polaron self-localization in white-light emitting hybrid perovskites. Journal of Materials Chemistry C, 2017, 5, 2771-2780.	2.7	196
18	Hollow core-shell nanostructure supercapacitor electrodes: gap matters. Energy and Environmental Science, 2012, 5, 9085.	15.6	184

#	ARTICLE	IF	CITATIONS
19	Novel hole transporting materials based on triptycene core for high efficiency mesoscopic perovskite solar cells. <i>Chemical Science</i> , 2014, 5, 2702-2709.	3.7	180
20	White light emission in low-dimensional perovskites. <i>Journal of Materials Chemistry C</i> , 2019, 7, 4956-4969.	2.7	163
21	Coherent perfect absorption in deeply subwavelength films in the single-photon regime. <i>Nature Communications</i> , 2015, 6, 7031.	5.8	160
22	Interfacial Charge Transfer Anisotropy in Polycrystalline Lead Iodide Perovskite Films. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 1396-1402.	2.1	141
23	Excitonic and Polaronic Properties of 2D Hybrid Organic-Inorganic Perovskites. <i>ACS Energy Letters</i> , 2017, 2, 417-423.	8.8	140
24	Self-assembled hierarchical nanostructured perovskites enable highly efficient LEDs via an energy cascade. <i>Energy and Environmental Science</i> , 2018, 11, 1770-1778.	15.6	135
25	Intrinsic Lead Ion Emissions in Zero-Dimensional Cs <sub>4</sub> PbBr <sub>6</sub> Nanocrystals. <i>ACS Energy Letters</i> , 2017, 2, 2805-2811.	8.8	133
26	High Density Individually Addressable Nanowire Arrays Record Intracellular Activity from Primary Rodent and Human Stem Cell Derived Neurons. <i>Nano Letters</i> , 2017, 17, 2757-2764.	4.5	132
27	Dichroic spin-valley photocurrent in monolayer molybdenum disulphide. <i>Nature Communications</i> , 2015, 6, 7636.	5.8	128
28	Organometallic Perovskite Metasurfaces. <i>Advanced Materials</i> , 2017, 29, 1604268.	11.1	118
29	Influence of surface states on the extraction of transport parameters from InAs nanowire field effect transistors. <i>Applied Physics Letters</i> , 2007, 90, 162112.	1.5	112
30	Phase-change-driven dielectric-plasmonic transitions in chalcogenide metasurfaces. <i>NPG Asia Materials</i> , 2018, 10, 533-539.	3.8	108
31	Room-temperature 2D semiconductor activated vertical-cavity surface-emitting lasers. <i>Nature Communications</i> , 2017, 8, 543.	5.8	102
32	Amorphous Metal-Sulphide Microfibers Enable Photonic Synapses for Brain-Like Computing. <i>Advanced Optical Materials</i> , 2015, 3, 635-641.	3.6	101
33	Polymer Distributed Bragg Reflectors for Vapor Sensing. <i>ACS Photonics</i> , 2015, 2, 537-543.	3.2	100
34	Band structure and optical properties of opal photonic crystals. <i>Physical Review B</i> , 2005, 72, .	1.1	98
35	Efficient and Ambient-Stable Solar Cell with Highly Oriented 2D@3D Perovskites. <i>Advanced Functional Materials</i> , 2018, 28, 1801654.	7.8	98
36	Silicon nanowire detectors showing phototransistive gain. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	96

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37	Heteroepitaxial Growth of Vertical GaAs Nanowires on Si (111) Substrates by Metal-Organic Chemical Vapor Deposition. <i>Nano Letters</i> , 2008, 8, 3755-3760.	4.5	93
38	Label-Free Vapor Selectivity in Poly(p-Phenylene Oxide) Photonic Crystal Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 31941-31950.	4.0	93
39	Luminescence from FeSi <sub>2</sub> precipitates in Si. II: Origin and nature of the photoluminescence. <i>Physical Review B</i> , 2002, 66, .	1.1	90
40	Stable biexcitons in two-dimensional metal-halide perovskites with strong dynamic lattice disorder. <i>Physical Review Materials</i> , 2018, 2, .	0.9	89
41	Highly efficient Cs-based perovskite light-emitting diodes enabled by energy funnelling. <i>Chemical Communications</i> , 2017, 53, 12004-12007.	2.2	85
42	Designing Efficient Energy Funneling Kinetics in Ruddlesden-Popper Perovskites for High-Performance Light-Emitting Diodes. <i>Advanced Materials</i> , 2018, 30, e1800818.	11.1	85
43	A Systematic Study on the Growth of GaAs Nanowires by Metal-Organic Chemical Vapor Deposition. <i>Nano Letters</i> , 2008, 8, 4275-4282.	4.5	81
44	Charge-carrier relaxation dynamics in highly ordered poly(p-phenylene vinylene): Effects of carrier bimolecular recombination and trapping. <i>Physical Review B</i> , 2005, 72, .	1.1	74
45	Transport properties of InAs nanowire field effect transistors: The effects of surface states. <i>Journal of Vacuum Science &amp; Technology B</i> , 2007, 25, 1432.	1.3	74
46	Broadband-Emitting 2D Hybrid Organic-Inorganic Perovskite Based on Cyclohexane-bis(methylammonium) Cation. <i>ChemSusChem</i> , 2017, 10, 3765-3772.	3.6	72
47	Additive Selection Strategy for High Performance Perovskite Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13884-13893.	1.5	71
48	Designing the Perovskite Structural Landscape for Efficient Blue Emission. <i>ACS Energy Letters</i> , 2020, 5, 1593-1600.	8.8	71
49	Nanowire Lasers. <i>Nanophotonics</i> , 2015, 4, 90-107.	2.9	66
50	Plasmonics of topological insulators at optical frequencies. <i>NPG Asia Materials</i> , 2017, 9, e425-e425.	3.8	65
51	High-Q Plasmonic Fano Resonance for Multiband Surface-Enhanced Infrared Absorption of Molecular Vibrational Sensing. <i>Advanced Optical Materials</i> , 2017, 5, 1600559.	3.6	59
52	Advances in the synthesis of InAs and GaAs nanowires for electronic applications. <i>Nano Today</i> , 2009, 4, 347-358.	6.2	55
53	Visible Range Plasmonic Modes on Topological Insulator Nanostructures. <i>Advanced Optical Materials</i> , 2017, 5, 1600768.	3.6	55
54	Aligned rP3HT film: Structural order and transport properties. <i>Synthetic Metals</i> , 2005, 155, 639-642.	2.1	54

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55	Fluorescence from rubrene single crystals: Interplay of singlet fission and energy trapping. <i>Physical Review B</i> , 2013, 87, .	1.1	52
56	Perovskite metasurfaces with large superstructural chirality. <i>Nature Communications</i> , 2022, 13, 1551.	5.8	51
57	Facile Synthesis of a Furan- $\pi$ -Arylamine Hole-Transporting Material for High-Efficiency, Mesoscopic Perovskite Solar Cells. <i>Chemistry - A European Journal</i> , 2015, 21, 15113-15117.	1.7	49
58	An optical fiber network oracle for NP-complete problems. <i>Light: Science and Applications</i> , 2014, 3, e147-e147.	7.7	47
59	Ultrafast Spectroscopic Study of Photoinduced Electron Transfer in an Oligo(thienylenevinylene):Fullerene Composite. <i>Advanced Functional Materials</i> , 2007, 17, 563-568.	7.8	46
60	Brightness Enhancement in Pulsed-Operated Perovskite Light-Emitting Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 37316-37325.	4.0	46
61	Infrared dielectric metamaterials from high refractive index chalcogenides. <i>Nature Communications</i> , 2020, 11, 1692.	5.8	45
62	Anisotropic photonic properties of III-V nanowires in the zinc-blende and wurtzite phase. <i>Nanoscale</i> , 2012, 4, 1446.	2.8	41
63	Quantum super-oscillation of a single photon. <i>Light: Science and Applications</i> , 2016, 5, e16127-e16127.	7.7	41
64	Mechanism of Carrier Photogeneration and Carrier Transport in Molecular Crystal Tetracene. <i>Physical Review Letters</i> , 2006, 97, 067401.	2.9	39
65	Mixed-Dimensional Naphthylmethylammonium-Methylammonium Lead Iodide Perovskites with Improved Thermal Stability. <i>Scientific Reports</i> , 2020, 10, 429.	1.6	39
66	Engineering the Emission of Broadband 2D Perovskites by Polymer Distributed Bragg Reflectors. <i>ACS Photonics</i> , 2018, 5, 867-874.	3.2	38
67	Image reconstruction through a multimode fiber with a simple neural network architecture. <i>Scientific Reports</i> , 2021, 11, 896.	1.6	37
68	Facile synthesis of a hole transporting material with a silafluorene core for efficient mesoscopic CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 8750-8754.	5.2	36
69	GaN Schottky Metal-Semiconductor-Metal UV Photodetectors on Si(111) Grown by Ammonia-MBE. <i>IEEE Sensors Journal</i> , 2017, 17, 72-77.	2.4	35
70	Anisotropic photoluminescence properties of oriented poly(p-phenylene-vinylene) films: Effects of dispersion of optical constants. <i>Physical Review B</i> , 2007, 75, .	1.1	34
71	Crystal Engineering of a Two-Dimensional Lead-Free Perovskite with Functional Organic Cations by Second-Sphere Coordination. <i>ChemPlusChem</i> , 2017, 82, 681-685.	1.3	34
72	Optical Rashba Effect in a Light-Emitting Perovskite Metasurface. <i>Advanced Materials</i> , 2022, 34, e2109157.	11.1	34

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73	Large Polaron Self-Trapped States in Three-Dimensional Metal-Halide Perovskites. , 2020, 2, 20-27.		33
74	The role of electron photoemission in the 'photoconductivity' of semiconducting polymers. Chemical Physics Letters, 2001, 350, 531-536.	1.2	32
75	High-Q Whispering-Gallery-Mode-Based Plasmonic Fano Resonances in Coupled Metallic Metasurfaces at Near Infrared Frequencies. Advanced Optical Materials, 2016, 4, 1295-1301.	3.6	32
76	Testbeds for Transition Metal Dichalcogenide Photonics: Efficacy of Light Emission Enhancement in Monomer vs Dimer Nanoscale Antennae. ACS Photonics, 2017, 4, 1713-1721.	3.2	31
77	Coherent Perfect Absorption in Metamaterials with Entangled Photons. ACS Photonics, 2017, 4, 2124-2128.	3.2	31
78	Two-photon-induced singlet fission in rubrene single crystal. Journal of Chemical Physics, 2013, 138, 184508.	1.2	30
79	Hybrid ZnO:polystyrene nanocomposite for all-polymer photonic crystals. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 158-162.	0.8	30
80	Single photon triggered dianion formation in TCNQ and F4TCNQ crystals. Scientific Reports, 2016, 6, 28510.	1.6	30
81	Cathodoluminescence of Self-Organized Heterogeneous Phases in Multidimensional Perovskite Thin Films. Chemistry of Materials, 2017, 29, 10088-10094.	3.2	30
82	All-polymer methylammonium lead iodide perovskite microcavities. Nanoscale, 2019, 11, 8978-8983.	2.8	30
83	Tunable photovoltaic effect and solar cell performance of self-doped perovskite SrTiO <sub>3</sub> . AIP Advances, 2012, 2, .	0.6	28
84	Computing matrix inversion with optical networks. Optics Express, 2014, 22, 295.	1.7	27
85	Femtosecond to Microsecond Dynamics of Soret-Band Excited Corroles. Journal of Physical Chemistry C, 2015, 119, 28691-28700.	1.5	27
86	Temperature and Electrical Poling Effects on Ionic Motion in MAPbI <sub>3</sub> Photovoltaic Cells. Advanced Energy Materials, 2017, 7, 1700265.	10.2	26
87	Structure-controlled optical thermoresponse in Ruddlesden-Popper layered perovskites. APL Materials, 2018, 6, .	2.2	26
88	First-Principles Study of the Nuclear Dynamics of Doped Conjugated Polymers. Journal of Physical Chemistry C, 2016, 120, 1994-2001.	1.5	25
89	Metamaterial Enhancement of Metal-Halide Perovskite Luminescence. Nano Letters, 2020, 20, 7906-7911.	4.5	23
90	Topological insulator metamaterial with giant circular photogalvanic effect. Science Advances, 2021, 7, .	4.7	23

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91	Charge Redistribution at GaAs/P3HT Heterointerfaces with Different Surface Polarity. Journal of Physical Chemistry Letters, 2013, 4, 3303-3309.	2.1	22
92	Black GaAs by Metal-Assisted Chemical Etching. ACS Applied Materials & Interfaces, 2018, 10, 33434-33440.	4.0	21
93	Tailoring the Vapor-Liquid-Solid Growth toward the Self-Assembly of GaAs Nanowire Junctions. Nano Letters, 2011, 11, 4947-4952.	4.5	20
94	Exciton-Enabled Meta-Optics in Two-Dimensional Transition Metal Dichalcogenides. Nano Letters, 2020, 20, 7964-7972.	4.5	19
95	Mapping polarons in polymer FETs by charge modulation microscopy in the mid-infrared. Scientific Reports, 2014, 4, 3626.	1.6	18
96	Multiple and Multipolar Fano Resonances in Plasmonic Nanoring Pentamers. Advanced Optical Materials, 2013, 1, 978-983.	3.6	17
97	Enhanced electron injection in polymer light-emitting diodes: polyhedral oligomeric silsesquioxanes as dilute additives. Journal Physics D: Applied Physics, 2006, 39, 2048-2052.	1.3	16
98	Independent Tailoring of Super-Radiant and Sub-Radiant Modes in High-Q Plasmonic Fano Resonant Metasurfaces. Advanced Optical Materials, 2016, 4, 1860-1866.	3.6	16
99	Nitrogen doped cuprous oxide as low cost hole-transporting material for perovskite solar cells. Scripta Materialia, 2018, 153, 104-108.	2.6	16
100	Optical NP problem solver on laser-written waveguide platform. Optics Express, 2018, 26, 702.	1.7	16
101	A Non-Volatile Chalcogenide Switchable Hyperbolic Metamaterial. Advanced Optical Materials, 2018, 6, 1800332.	3.6	16
102	Symmetry perception with spiking neural networks. Scientific Reports, 2021, 11, 5776.	1.6	16
103	Novel Heterogeneous Integration Technology of III-V Layers and InGaAs FinFETs to Silicon. Advanced Functional Materials, 2014, 24, 4420-4426.	7.8	15
104	Ambipolar charge distribution in donor-acceptor polymer field-effect transistors. Journal of Materials Chemistry C, 2017, 5, 754-762.	2.7	15
105	High-Q plasmonic infrared absorber for sensing of molecular resonances in hybrid lead halide perovskites. Journal of Applied Physics, 2017, 122, .	1.1	15
106	Co-Evaporated Perovskite Light-Emitting Transistor Operating at Room Temperature. Advanced Electronic Materials, 2021, 7, 2100403.	2.6	15
107	Terahertz generation from poly(p-phenylene vinylene) photoconductive antenna. Synthetic Metals, 2003, 139, 815-817.	2.1	14
108	Hot exciton cooling and multiple exciton generation in PbSe quantum dots. Physical Chemistry Chemical Physics, 2016, 18, 31107-31114.	1.3	14

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109	Enhancement of luminescence of quantum emitters in epsilon-near-zero waveguides. Applied Physics Letters, 2020, 117, 181104.	1.5	14
110	Origin of Amplified Spontaneous Emission Degradation in MAPbBr <sub>3</sub> Thin Films under Nanosecond-UV Laser Irradiation. Journal of Physical Chemistry C, 2020, 124, 10696-10704.	1.5	14
111	Enhanced Sb <sub>2</sub> S <sub>3</sub> crystallisation by electric field induced silver doping. Thin Solid Films, 2016, 616, 80-85.	0.8	13
112	All-Optical Reinforcement Learning In Solitonic X-Junctions. Scientific Reports, 2018, 8, 5716.	1.6	13
113	Grain Size Modulation and Interfacial Engineering of CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Emitter Films through Incorporation of Tetraethylammonium Bromide. ChemPhysChem, 2018, 19, 1075-1080.	1.0	13
114	Responsivity drop due to conductance modulation in GaN metal-semiconductor-metal Schottky based UV photodetectors on Si(111). Semiconductor Science and Technology, 2016, 31, 095003.	1.0	12
115	Perovskite templating <i>via</i> a bathophenanthroline additive for efficient light-emitting devices. Journal of Materials Chemistry C, 2018, 6, 2295-2302.	2.7	12
116	The Photophysics of Polythiophene Nanoparticles for Biological Applications. ChemBioChem, 2019, 20, 532-536.	1.3	11
117	Effects of bimolecular recombination and charge-trapping on the transient photoconductivity of poly(p-phenylene vinylene). Synthetic Metals, 2005, 153, 145-148.	2.1	10
118	Charge carrier photogeneration and transport properties of a novel low-bandgap conjugated polymer for organic photovoltaics. , 2006, 6334, 47.		10
119	Monolithic integration of III-V nanowire with photonic crystal microcavity for vertical light emission. Optics Express, 2012, 20, 7758.	1.7	10
120	Plasmon-Polaron Coupling in Conjugated Polymer on Infrared Nanoantennas. Nano Letters, 2015, 15, 5382-5387.	4.5	10
121	Small-Size Effects on Electron Transfer in P3HT/InP Quantum Dots. Journal of Physical Chemistry C, 2015, 119, 26783-26792.	1.5	10
122	Photoresponsive azobenzene ligand as an efficient electron acceptor for luminous CdTe quantum dots. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 375, 48-53.	2.0	10
123	Ambipolar Charge Photogeneration and Transfer at GaAs/P3HT Heterointerfaces. Journal of Physical Chemistry Letters, 2014, 5, 1144-1150.	2.1	9
124	Charge Transport in Organometal Halide Perovskites. , 2016, , 201-222.		9
125	Broadband Tunable Hybrid Photonic Crystal-Nanowire Light Emitter. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-8.	1.9	9
126	Femtosecond laser inscription of nonlinear photonic circuits in Gallium Lanthanum Sulphide glass. JPhys Photonics, 2019, 1, 015006.	2.2	9



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127	Coherent perfect absorption of single photons in a fiber network. <i>Applied Physics Letters</i> , 2019, 115, .	1.5	9
128	Phase stabilization of a coherent fiber network by single-photon counting. <i>Optics Letters</i> , 2020, 45, 2740.	1.7	9
129	Plasmonic Nanoclocks. <i>Nano Letters</i> , 2014, 14, 5162-5169.	4.5	8
130	Revising morphology of $\text{111}$ -oriented silicon and germanium nanowires. <i>Nano Convergence</i> , 2015, 2, .	6.3	8
131	All-Optical Implementation of the Ant Colony Optimization Algorithm. <i>Scientific Reports</i> , 2016, 6, 26283.	1.6	8
132	Unique Reversible Crystal-to-Crystal Phase Transition—Structural and Functional Properties of Fused Ladder Thienoarenes. <i>Chemistry of Materials</i> , 2017, 29, 7686-7696.	3.2	8
133	Solution Processed Polymer-ABX <sub>4</sub> Perovskite-Like Microcavities. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 5203.	1.3	8
134	Triplet excitons in acyl- and alkyl-substituted polycarbazolyldiacetylenes: A spectroscopical and photophysical study. <i>Physical Review B</i> , 2004, 69, .	1.1	7
135	Phase-change perovskite metasurfaces for dynamic color tuning. <i>Nanophotonics</i> , 2022, 11, 3961-3968.	2.9	7
136	Deterministic generation of entanglement in a quantum network by coherent absorption of a single photon. <i>Physical Review A</i> , 2022, 106, .	1.0	7
137	Morphology and optical properties of bare and polydiacetylenes-infiltrated opals. <i>Synthetic Metals</i> , 2003, 139, 633-636.	2.1	6
138	Polarized optical and photoluminescence properties of highly oriented poly(p-phenylene-vinylene). <i>Synthetic Metals</i> , 2005, 153, 281-284.	2.1	6
139	Raman spectroscopy of femtosecond laser written low propagation loss optical waveguides in Schott N-SF8 glass. <i>Optical Materials</i> , 2017, 72, 626-631.	1.7	6
140	Picosecond Charge Localization Dynamics in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite Probed by Infrared-Activated Vibrations. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4428-4433.	2.1	6
141	Rocking chair defect generation in nanowire growth. <i>Applied Physics Letters</i> , 2012, 101, 053121.	1.5	5
142	Microfibers: Amorphous Metal-Sulphide Microfibers Enable Photonic Synapses for Brain-Like Computing ( <i>Advanced Optical Materials</i> 5/2015). <i>Advanced Optical Materials</i> , 2015, 3, 634-634.	3.6	5
143	Nanoimprint Lithography: Toward Functional Photonic Crystals. , 2015, , 187-212.		5
144	A fused thieno[3,2-b]thiophene-dithiophene based donor molecule for organic photovoltaics: a structural comparative study with indacenodithiophene. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9656-9663.	2.7	5

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145	Compound Semiconductor Nanowire Photodetectors. <i>Semiconductors and Semimetals</i> , 2016, 94, 75-107.	0.4	5
146	Carrier density and light helicity dependence of photocurrent in mono- and bilayer graphene. <i>Semiconductor Science and Technology</i> , 2018, 33, 114008.	1.0	5
147	Photonic implementation of artificial synapses in ultrafast laser inscribed waveguides in chalcogenide glass. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	5
148	Synthesis of 5-azatetracene and Comparison of Its Optical and Electrochemical Properties with Tetracene. <i>Asian Journal of Organic Chemistry</i> , 2021, 10, 2571.	1.3	5
149	Photoinduced absorption spectra in polydiacetylenes for non linear optical applications. <i>Synthetic Metals</i> , 2003, 138, 75-78.	2.1	4
150	Morphology, band structure, and optical properties of artificial opals. , 2004, 5511, 135.		4
151	Lithography Assisted Fiber-Drawing Nanomanufacturing. <i>Scientific Reports</i> , 2016, 6, 35409.	1.6	4
152	Novel paradigm for integrated photonics circuits: transient interconnection network. , 2017, , .		4
153	Relaxation lifetimes of plasmonically enhanced hybrid gold-carbon nanotubes systems. <i>Nanotechnology</i> , 2017, 28, 255202.	1.3	4
154	Black GaAs: Gold-Assisted Chemical Etching for Light Trapping and Photon Recycling. <i>Micromachines</i> , 2020, 11, 573.	1.4	4
155	Alignment of Liquid Crystalline Polyfluorene Films by an Optically Aligned Polymer Layer. <i>Japanese Journal of Applied Physics</i> , 2006, 45, L33-L35.	0.8	3
156	Planar and vertical Si nanowire photodetectors. , 2008, , .		3
157	Enhancing photocurrent transient spectroscopy by electromagnetic modeling. <i>Review of Scientific Instruments</i> , 2012, 83, 053103.	0.6	3
158	Role of edge facets on stability and electronic properties of III-V nanowires. <i>Nano Convergence</i> , 2015, 2, .	6.3	3
159	Crystal Engineering of a Two-Dimensional Lead-Free Perovskite with Functional Organic Cations by Second-Sphere Coordination. <i>ChemPlusChem</i> , 2017, 82, 671-671.	1.3	3
160	AC-driven perovskite light-emitting field-effect transistors. , 2017, , .		3
161	Solitonic waveguide reflection at an electric interface. <i>Optics Express</i> , 2019, 27, 20273.	1.7	3
162	Polarized photoluminescence of highly oriented poly(p-phenylene-vinylene). , 2004, , .		2

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163	Light emission from an ambipolar semiconducting polymer field-effect transistor. , 2006, 6117, 90.		2
164	Electromagnetic modeling and optimization of photoconductive switches for terahertz generation and photocurrent transient spectroscopy. , 2011, , .		2
165	Advanced IIIâ€V nanowire growth toward large-scale integration. , 2015, , 71-124.		2
166	Voltage transient analysis as a generic tool for solar junction characterization. Journal Physics D: Applied Physics, 2018, 51, 345501.	1.3	2
167	All-dielectric Halide Perovskite Metasurfaces with Giant Chirality. , 2021, , .		2
168	Identifying mirror symmetry density with delay in spiking neural networks (Conference Presentation). , 2018, , .		2
169	Reconfigurable hyperbolic metamaterial with negative refraction. , 2016, , .		2
170	Phase Change Perovskite Metasurfaces. , 2020, , .		2
171	Mechanism of Carrier Photoexcitation in Semiconducting Polymers: The Role of Electron Photoemission in â€œPhotoconductivityâ€-Measurements. Materials Research Society Symposia Proceedings, 2001, 665, 1.	0.1	1
172	The photophysics of triplet excitons in substituted polycarbazolyldiacetylenes. Synthetic Metals, 2003, 139, 889-892.	2.1	1
173	Ultrafast charge carrier dynamics in organic (opto)electronic materials. , 2013, , 318-355.		1
174	Fiber non-Turing all-optical computer for solving complex decision problems. , 2013, , .		1
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