

Kenan Gundogdu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

86

papers

4,500

citations

32

h-index

66

g-index

92

ext. papers

5,095

ext. citations

10.1

avg, IF

5.53

L-index

#	Paper	IF	Citations
86	Fast charge separation in a non-fullerene organic solar cell with a small driving force. <i>Nature Energy</i> , 2016 , 1,	62.3	967
85	Many-body effects in valleytronics: direct measurement of valley lifetimes in single-layer MoS ₂ . <i>Nano Letters</i> , 2014 , 14, 202-6	11.5	381
84	Efficient Charge Transfer and Fine-Tuned Energy Level Alignment in a THF-Processed Fullerene-Free Organic Solar Cell with 11.3% Efficiency. <i>Advanced Materials</i> , 2017 , 29, 1604241	24	279
83	A near-infrared non-fullerene electron acceptor for high performance polymer solar cells. <i>Energy and Environmental Science</i> , 2017 , 10, 1610-1620	35.4	238
82	Two-quantum 2D FT electronic spectroscopy of biexcitons in GaAs quantum wells. <i>Science</i> , 2009 , 324, 1169-73	33.3	225
81	Nonmagnetic semiconductor spin transistor. <i>Applied Physics Letters</i> , 2003 , 83, 2937-2939	3.4	113
80	Engineering Substrate Interactions for High Luminescence Efficiency of Transition-Metal Dichalcogenide Monolayers. <i>Advanced Functional Materials</i> , 2016 , 26, 4733-4739	15.6	112
79	Exciton valley relaxation in a single layer of WS ₂ measured by ultrafast spectroscopy. <i>Physical Review B</i> , 2014 , 90,	3.3	102
78	Direct-Bandgap 2D Silver-Bismuth Iodide Double Perovskite: The Structure-Directing Influence of an Oligothiophene Spacer Cation. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7955-7964	16.4	100
77	Fundamental limits of exciton-exciton annihilation for light emission in transition metal dichalcogenide monolayers. <i>Physical Review B</i> , 2016 , 93,	3.3	97
76	Effects of Cd Diffusion and Doping in High-Performance Perovskite Solar Cells Using CdS as Electron Transport Layer. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 16437-16445	3.8	77
75	Efficient Generation of Long-Lived Triplet Excitons in 2D Hybrid Perovskite. <i>Advanced Materials</i> , 2017 , 29, 1604278	24	69
74	Invited article: The coherent optical laser beam recombination technique (COLBERT) spectrometer: coherent multidimensional spectroscopy made easier. <i>Review of Scientific Instruments</i> , 2011 , 82, 081301	1.7	69
73	Efficient Energy Funneling in Quasi-2D Perovskites: From Light Emission to Lasing. <i>Advanced Materials</i> , 2020 , 32, e1906571	24	68
72	Three-dimensional electronic spectroscopy of excitons in GaAs quantum wells. <i>Journal of Chemical Physics</i> , 2009 , 131, 144510	3.9	68
71	Thermodynamic Properties and Molecular Packing Explain Performance and Processing Procedures of Three D18:NFA Organic Solar Cells. <i>Advanced Materials</i> , 2020 , 32, e2005386	24	67
70	Exciton-exciton correlations revealed by two-quantum, two-dimensional fourier transform optical spectroscopy. <i>Accounts of Chemical Research</i> , 2009 , 42, 1452-61	24.3	66

69	Ultrafast electron capture into p-modulation-doped quantum dots. <i>Applied Physics Letters</i> , 2004 , 85, 4570-4572	3.4	64
68	Controlling Energy Levels and Blend Morphology for All-Polymer Solar Cells via Fluorination of a Naphthalene Diimide-Based Copolymer Acceptor. <i>Macromolecules</i> , 2016 , 49, 6374-6383	5.5	62
67	Single Component Organic Solar Cells Based on Oligothiophene-Fullerene Conjugate. <i>Advanced Functional Materials</i> , 2017 , 27, 1702474	15.6	62
66	Metal Halide Perovskites for Laser Applications. <i>Advanced Functional Materials</i> , 2021 , 31, 2010144	15.6	60
65	Impact of the photo-induced degradation of electron acceptors on the photophysics, charge transport and device performance of all-polymer and fullerene-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22170-22179	13	57
64	Multidimensional coherent spectroscopy made easy. <i>Chemical Physics</i> , 2007 , 341, 89-94	2.3	57
63	A PCBM Electron Transport Layer Containing Small Amounts of Dual Polymer Additives that Enables Enhanced Perovskite Solar Cell Performance. <i>Advanced Science</i> , 2016 , 3, 1500353	13.6	52
62	Spin relaxation in (110) and (001) InAs/GaSb superlattices. <i>Physical Review B</i> , 2003 , 68,	3.3	47
61	The Impact of Sequential Fluorination of Conjugated Polymers on Charge Generation in All-Polymer Solar Cells. <i>Advanced Functional Materials</i> , 2017 , 27, 1701256	15.6	41
60	Strong polymer molecular weight-dependent material interactions: impact on the formation of the polymer/fullerene bulk heterojunction morphology. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13176-13188	13	38
59	More stable and more efficient alternatives of Z-907: carbazole-based amphiphilic Ru(II) sensitizers for dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 27078-87	3.6	38
58	Tunable internal quantum well alignment in rationally designed oligomer-based perovskite films deposited by resonant infrared matrix-assisted pulsed laser evaporation. <i>Materials Horizons</i> , 2019 , 6, 1707-1716	14.4	34
57	Every Atom Counts: Elucidating the Fundamental Impact of Structural Change in Conjugated Polymers for Organic Photovoltaics. <i>Chemistry of Materials</i> , 2018 , 30, 2995-3009	9.6	33
56	Spatial temperature mapping within polymer nanocomposites undergoing ultrafast photothermal heating via gold nanorods. <i>Nanoscale</i> , 2014 , 6, 15236-47	7.7	32
55	Electron and hole spin dynamics in semiconductor quantum dots. <i>Applied Physics Letters</i> , 2005 , 86, 11311-14	3.4	32
54	Polymer non-fullerene solar cells of vastly different efficiencies for minor side-chain modification: impact of charge transfer, carrier lifetime, morphology and mobility. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12484-12492	13	31
53	Enhancing Multifunctionalities of Transition-Metal Dichalcogenide Monolayers via Cation Intercalation. <i>ACS Nano</i> , 2017 , 11, 9390-9396	16.7	30
52	Room-temperature electric-field controlled spin dynamics in (110) InAs quantum wells. <i>Applied Physics Letters</i> , 2005 , 86, 202114	3.4	30

51	Critical Role of Polymer Aggregation and Miscibility in Nonfullerene-Based Organic Photovoltaics. <i>Advanced Energy Materials</i> , 2020 , 10, 1902430	21.8	29
50	MAPbI ₃ Solar Cells with Absorber Deposited by Resonant Infrared Matrix-Assisted Pulsed Laser Evaporation. <i>ACS Energy Letters</i> , 2018 , 3, 270-275	20.1	27
49	Influence of mono versus bis-electron-donor ancillary ligands in heteroleptic Ru(II) bipyridyl complexes on electron injection from the first excited singlet and triplet states in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14228-14235	13	27
48	Efficient electron spin detection with positively charged quantum dots. <i>Applied Physics Letters</i> , 2004 , 84, 2793-2795	3.4	27
47	Phase-Pure Hybrid Layered Lead Iodide Perovskite Films Based on a Two-Step Melt-Processing Approach. <i>Chemistry of Materials</i> , 2019 , 31, 4267-4274	9.6	26
46	Aqueous Soluble Fullerene Acceptors for Efficient Eco-Friendly Polymer Solar Cells Processed from Benign Ethanol/Water Mixtures. <i>Chemistry of Materials</i> , 2018 , 30, 5663-5672	9.6	26
45	Reversible Photoluminescence Tuning by Defect Passivation via Laser Irradiation on Aged Monolayer MoS ₂ . <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38240-38246	9.5	25
44	Excited-state dynamics and carrier capture in InGaAs/GaAs quantum dots. <i>Applied Physics Letters</i> , 2001 , 79, 3320-3322	3.4	25
43	Room-Temperature Electron-Hole Liquid in Monolayer MoS ₂ . <i>ACS Nano</i> , 2019 , 13, 10351-10358	16.7	23
42	Efforts toward developing probes of protein dynamics: vibrational dephasing and relaxation of carbon-deuterium stretching modes in deuterated leucine. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 7991-4	3.4	23
41	Relaxation and anharmonic couplings of the O-H stretching vibration of asymmetric strongly hydrogen-bonded complexes. <i>Journal of Chemical Physics</i> , 2007 , 127, 044501	3.9	23
40	Dense Electron-Hole Plasma Formation and Ultralong Charge Lifetime in Monolayer MoS ₂ via Material Tuning. <i>Nano Letters</i> , 2019 , 19, 1104-1111	11.5	23
39	Towards radiation detection using Cs ₂ AgBiBr ₆ double perovskite single crystals. <i>Materials Letters</i> , 2020 , 269, 127667	3.3	22
38	Charge Generation Dynamics in Efficient All-Polymer Solar Cells: Influence of Polymer Packing and Morphology. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 27586-91	9.5	22
37	GaN/InAs/GaAs Bragg-mirror-based structures for novel 1.3 μ m device applications. <i>Journal of Crystal Growth</i> , 2004 , 268, 457-465	1.6	22
36	Understanding the Role of Ion Migration in the Operation of Perovskite Light-Emitting Diodes by Transient Measurements. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 48845-48853	9.5	19
35	Measurement and control of in-plane surface chemistry during the oxidation of H-terminated (111) Si. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 17503-8	11.5	15
34	Low temperature cathodoluminescence study of Fe-doped EGa ₂ O ₃ . <i>Materials Letters</i> , 2019 , 257, 126744	3.3	14

33	The Role of FRET in Non-Fullerene Organic Solar Cells: Implications for Molecular Design. <i>Journal of Physical Chemistry A</i> , 2018 , 122, 3764-3771	2.8	14
32	Increased Exciton Delocalization of Polymer upon Blending with Fullerene. <i>Advanced Materials</i> , 2018 , 30, e1801392	24	14
31	Vibrational relaxation of C-D stretching vibrations in CDCl ₃ , CDBr ₃ , and CDI ₃ . <i>Journal of Chemical Physics</i> , 2006 , 125, 174503	3.9	14
30	A femtosecond study of the anomaly in electron injection for dye-sensitized solar cells: the influence of isomerization employing Ru(II) sensitizers with anthracene and phenanthrene ancillary ligands. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 2750-6	3.6	13
29	Impact of highly crystalline, isoindigo-based small-molecular additives for enhancing the performance of all-polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21291-21299	13	12
28	Charge Photogeneration in Organic Photovoltaics: Role of Hot versus Cold Charge-Transfer Excitons. <i>Advanced Energy Materials</i> , 2016 , 6, 1301032	21.8	12
27	Lowest energy Frenkel and charge transfer exciton intermixing in one-dimensional copper phthalocyanine molecular lattice. <i>Applied Physics Letters</i> , 2016 , 109, 213302	3.4	10
26	Design and synthesis of BODIPY sensitizers with long alkyl chains tethered to N-carbazole and their application for dye sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2016 , 184, 57-63	4.4	9
25	Bond-specific reaction kinetics during the oxidation of (111) Si: Effect of n-type doping. <i>Applied Physics Letters</i> , 2011 , 98, 021904	3.4	8
24	Effect of strain on bond-specific reaction kinetics during the oxidation of H-terminated (111) Si. <i>Applied Physics Letters</i> , 2011 , 98, 121912	3.4	8
23	Observation of carrier concentration dependent spintronic terahertz emission from n-GaN/NiFe heterostructures. <i>Applied Physics Letters</i> , 2020 , 117, 093502	3.4	8
22	Rigid valence band shift due to molecular surface counter-doping of MoS ₂ . <i>Surface Science</i> , 2019 , 679, 254-258	1.8	7
21	High-temperature superfluorescence in methyl ammonium lead iodide. <i>Nature Photonics</i> , 2021 , 15, 676-680	9.9	6
20	Effect of p-type doping on the oxidation of HSi(111) studied by second-harmonic generation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012 , 30, 040603	2.9	5
19	Enhanced Dielectric Screening and Photoluminescence from Nanopillar-Strained MoS ₂ Nanosheets: Implications for Strain Funneling in Optoelectronic Applications. <i>ACS Applied Nano Materials</i> , 2021 , 4, 8101-8107	5.6	5
18	Room-temperature superfluorescence in hybrid perovskites and its origins. <i>Nature Photonics</i> , 2022 , 16, 324-329	33.9	5
17	Near Band-Edge Optical Excitation Leading to Catastrophic Ionization and Electron Hole Liquid in Room-Temperature Monolayer MoS ₂ . <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1900223	1.3	4
16	Femtosecond pulse shaping using the geometric phase. <i>Optics Letters</i> , 2014 , 39, 1521-4	3	4

15	Charge generation dynamics in polymer nonfullerene solar cells with low energy loss. <i>Journal of Photonics for Energy</i> , 2018 , 8, 1	1.2	4
14	Monitoring Charge Separation Processes in Quasi-One-Dimensional Organic Crystalline Structures. <i>Nano Letters</i> , 2017 , 17, 6056-6061	11.5	3
13	Intrinsic and extrinsic effects on the electrostatic field at the surface of Bi ₂ Se ₃ . <i>Journal of Applied Physics</i> , 2014 , 116, 043519	2.5	3
12	Back-reflection Second-harmonic Generation of (111)Si: Theory and Experiment. <i>Journal of the Korean Physical Society</i> , 2011 , 58, 1237-1243	0.6	3
11	Direct Optical Observation of Stimulated Emission from Hot Charge Transfer Excitons in Bulk Heterojunction Polymer Solar Cells. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19697-19702	3.8	2
10	Effects of rapid thermal annealing on the optical properties of low-loss 1.3 μ m GaInNAs/AlGaAs saturable Bragg reflectors. <i>Journal of Applied Physics</i> , 2004 , 96, 1418-1424	2.5	2
9	Ultra-High Alignment of Polymer Semiconductor Blends Enabling Photodetectors with Exceptional Polarization Sensitivity. <i>Advanced Functional Materials</i> , 2015 , 25, 2105820	15.6	2
8	Multi-mode Organic Light-Emitting Diode to Suppress the Viewing Angle Dependence. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 31667-31676	9.5	1
7	Control of the oxidation kinetics of H-terminated (111)Si by using the carrier concentration and the strain: a second-harmonic-generation investigation. <i>Journal of the Korean Physical Society</i> , 2012 , 60, 1685-1689	0.6	1
6	Bias-dependent spin relaxation in a [110]-InAs/AlSb 2DES. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 34, 371-373	3	1
5	Broadband micro-transient absorption spectroscopy enabled by improved lock-in amplification. <i>Review of Scientific Instruments</i> , 2021 , 92, 104706	1.7	1
4	Three-Dimensional Electronic Four Wave-Mixing Spectroscopy in GaAs Quantum Wells. <i>Springer Series in Chemical Physics</i> , 2009 , 286-288	0.3	1
3	Organic Photovoltaics: Charge Photogeneration in Organic Photovoltaics: Role of Hot versus Cold Charge-Transfer Excitons (Adv. Energy Mater. 1/2016). <i>Advanced Energy Materials</i> , 2016 , 6,	21.8	1
2	Application of non-linear optical second harmonic generation and X-ray absorption and spectroscopies to defect related properties of Hf silicate and Hf Si oxynitride gate dielectrics. <i>Microelectronic Engineering</i> , 2009 , 86, 1654-1657	2.5	
1	Two-quantum Two-dimensional Fourier Transform Electronic Spectroscopy of Biexcitons in GaAs Quantum Wells. <i>Springer Series in Chemical Physics</i> , 2009 , 250-252	0.3	