

# Vivian E Ferry

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

6,402  
citations

201674

27  
h-index

233421

45  
g-index

64  
all docs

64  
docs citations

64  
times ranked

7883  
citing authors

#	ARTICLE	IF	CITATIONS
1	Broadband polarization-independent resonant light absorption using ultrathin plasmonic super absorbers. <i>Nature Communications</i> , 2011, 2, 517.	12.8	1,464
2	Plasmonic Nanostructure Design for Efficient Light Coupling into Solar Cells. <i>Nano Letters</i> , 2008, 8, 4391-4397.	9.1	727
3	Design Considerations for Plasmonic Photovoltaics. <i>Advanced Materials</i> , 2010, 22, 4794-4808.	21.0	645
4	Light trapping in ultrathin plasmonic solar cells. <i>Optics Express</i> , 2010, 18, A237.	3.4	587
5	Optimized Spatial Correlations for Broadband Light Trapping Nanopatterns in High Efficiency Ultrathin Film a-Si:H Solar Cells. <i>Nano Letters</i> , 2011, 11, 4239-4245.	9.1	350
6	Probing Förster and Dexter Energy-Transfer Mechanisms in Fluorescent Conjugated Polymer Chemosensors. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1537-1543.	2.6	306
7	Improved red-response in thin film a-Si:H solar cells with soft-imprinted plasmonic back reflectors. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	257
8	Design of Nanostructured Solar Cells Using Coupled Optical and Electrical Modeling. <i>Nano Letters</i> , 2012, 12, 2894-2900.	9.1	224
9	Photovoltaic Performance of Ultrasmall PbSe Quantum Dots. <i>ACS Nano</i> , 2011, 5, 8140-8147.	14.6	210
10	Modeling Light Trapping in Nanostructured Solar Cells. <i>ACS Nano</i> , 2011, 5, 10055-10064.	14.6	205
11	Luminescent Solar Concentration with Semiconductor Nanorods and Transfer-Printed Micro-Silicon Solar Cells. <i>ACS Nano</i> , 2014, 8, 44-53.	14.6	153
12	Quantum Dot Luminescent Concentrator Cavity Exhibiting 30-fold Concentration. <i>ACS Photonics</i> , 2015, 2, 1576-1583.	6.6	126
13	How much can guided modes enhance absorption in thin solar cells?. <i>Optics Express</i> , 2009, 17, 20975.	3.4	112
14	Dielectric Core-Shell Optical Antennas for Strong Solar Absorption Enhancement. <i>Nano Letters</i> , 2012, 12, 3674-3681.	9.1	106
15	Reversible Aptamer-Au Plasmon Rulers for Secreted Single Molecules. <i>Nano Letters</i> , 2015, 15, 4564-4570.	9.1	91
16	Reducing Operating Temperature in Photovoltaic Modules. <i>IEEE Journal of Photovoltaics</i> , 2018, 8, 532-540.	2.5	68
17	Optical Rotation Reversal in the Optical Response of Chiral Plasmonic Nanosystems: The Role of Plasmon Hybridization. <i>ACS Photonics</i> , 2015, 2, 1253-1259.	6.6	59
18	Silicon Quantum Dot-Poly(methyl methacrylate) Nanocomposites with Reduced Light Scattering for Luminescent Solar Concentrators. <i>ACS Photonics</i> , 2019, 6, 170-180.	6.6	58

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19	Circular Dichroism of CdSe Nanocrystals Bound by Chiral Carboxylic Acids. <i>ACS Nano</i> , 2017, 11, 12240-12246.	14.6	54
20	Symmetry Breaking in Tetrahedral Chiral Plasmonic Nanoparticle Assemblies. <i>ACS Photonics</i> , 2014, 1, 1189-1196.	6.6	43
21	Circular Dichroism in Off-Resonantly Coupled Plasmonic Nanosystems. <i>Nano Letters</i> , 2015, 15, 8336-8341.	9.1	40
22	Imaging Intra- and Interparticle Acousto-plasmonic Vibrational Dynamics with Ultrafast Electron Microscopy. <i>Nano Letters</i> , 2016, 16, 7302-7308.	9.1	39
23	Poly(methyl methacrylate) Films with High Concentrations of Silicon Quantum Dots for Visibly Transparent Luminescent Solar Concentrators. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 4572-4578.	8.0	36
24	Smaller Classes Promote Equitable Student Participation in STEM. <i>BioScience</i> , 2019, 69, 669-680.	4.9	34
25	Nonmonotonic Size Dependence in the Hole Mobility of Methoxide-Stabilized PbSe Quantum Dot Solids. <i>ACS Nano</i> , 2013, 7, 6774-6781.	14.6	32
26	Gender Performance Gaps Across Different Assessment Methods and the Underlying Mechanisms: The Case of Incoming Preparation and Test Anxiety. <i>Frontiers in Education</i> , 2019, 4, .	2.1	32
27	Spectrally Selective Mirrors with Combined Optical and Thermal Benefit for Photovoltaic Module Thermal Management. <i>ACS Photonics</i> , 2018, 5, 1528-1538.	6.6	30
28	Intrinsic measurements of exciton transport in photovoltaic cells. <i>Nature Communications</i> , 2019, 10, 1156.	12.8	28
29	Optimizing the NIR Fluence Threshold for Nanobubble Generation by Controlled Synthesis of 10-40 nm Hollow Gold Nanoshells. <i>Advanced Functional Materials</i> , 2018, 28, 1705272.	14.9	27
30	Determining the Complex Refractive Index of Neat CdSe/CdS Quantum Dot Films. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21557-21568.	3.1	27
31	Integrating Photonics with Luminescent Solar Concentrators: Optical Transport in the Presence of Photonic Mirrors. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20991-20997.	3.1	25
32	Designing spectrally-selective mirrors for use in luminescent solar concentrators. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 024009.	2.2	21
33	Nanoscale Patterning of Colloidal Nanocrystal Films for Nanophotonic Applications Using Direct Write Electron Beam Lithography. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 14970-14979.	8.0	21
34	Accounting for Localized Defects in the Optoelectronic Design of Thin-Film Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2013, 3, 599-604.	2.5	18
35	Doping- and Strain-Dependent Electrolyte-Gate-Induced Perovskite to Brownmillerite Transformation in Epitaxial La <sub>1-x</sub> Sr <sub>x</sub> CoO <sub>3-δ</sub> Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 51205-51217.	8.0	18
36	Model for Characterization and Optimization of Spectrally Selective Structures to Reduce the Operating Temperature and Improve the Energy Yield of Photovoltaic Modules. <i>ACS Applied Energy Materials</i> , 2019, 2, 3614-3623.	5.1	17

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37	Sonosensitizer-Functionalized Graphene Nanoribbons for Adhesion Blocking and Sonodynamic Ablation of Ovarian Cancer Spheroids. <i>Advanced Healthcare Materials</i> , 2021, 10, 2001368.	7.6	16
38	Tuning the Polarization and Directionality of Photoluminescence of Achiral Quantum Dot Films with Chiral Nanorod Dimer Arrays: Implications for Luminescent Applications. <i>ACS Applied Nano Materials</i> , 2019, 2, 5681-5687.	5.0	15
39	CdSe/CdS-poly(cyclohexylethylene) thin film luminescent solar concentrators. <i>APL Materials</i> , 2019, 7, .	5.1	14
40	Bilayer Luminescent Solar Concentrators with Enhanced Absorption and Efficiency for Agrivoltaic Applications. <i>ACS Applied Energy Materials</i> , 2021, 4, 14102-14110.	5.1	14
41	Optical approaches for passive thermal management in c-Si photovoltaic modules. <i>Cell Reports Physical Science</i> , 2021, 2, 100430.	5.6	9
42	Breaking the Limits of Optical Energy Conversion. <i>Optics and Photonics News</i> , 2015, 26, 48.	0.5	7
43	Light Management in Bifacial Photovoltaics with Spectrally Selective Mirrors. <i>ACS Applied Energy Materials</i> , 2021, 4, 5397-5402.	5.1	7
44	Light Trapping in Plasmonic Solar Cells. , 2011, , .		6
45	Plasmonic light trapping for thin film A-Si:H solar cells. , 2010, , .		4
46	Two-layer anti-reflection coatings with optimized sub-bandgap reflection for solar modules. , 2018, , .		4
47	Performance of Low-Complexity Spectrally Selective One-Dimensional Mirrors for Photovoltaic Thermal Management. , 2018, , .		3
48	Tunable optical chirality in a metamaterial platform with off-resonantly coupled metal-dielectric components. <i>Optics Express</i> , 2018, 26, 17289.	3.4	3
49	Surface Structure Dependent Circular Dichroism in Single and Double Gyroid Metamaterials. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	3
50	Accounting for localized defects in the optoelectronic design of thin-film solar cells. , 2012, , .		2
51	Insulation or Irradiance: Exploring Why Bifacial Photovoltaics Run Hot. , 2021, , .		2
52	Nanophotonic Luminescent Solar Concentrators. , 2015, , .		1
53	Outdoor Testing of c-Si Photovoltaic Modules with Spectrally-Selective Mirrors for Operating Temperature Reduction. , 2019, , .		1
54	Evaluating Tandem Luminescent Solar Concentrator Performance Based on Luminophore Selection. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
55	PLASMONIC PHOTOVOLTAICS. , 2008, , .		0
56	Conformal plasmonic a-Si:H solar cells with non-periodic light trapping patterns. , 2011, , .		0
57	Light trapping in plasmonic photovoltaics. , 2012, , .		0
58	Accounting for localized defects in the optoelectronic design of thin-film solar cells. , 2013, , .		0
59	Direct Imaging of Incoherent-to-Coherent Structural Dynamics in Plasmonic Nanorods with Ultrafast Electron Microscopy. Microscopy and Microanalysis, 2019, 25, 2002-2003.	0.4	0
60	Nanophotonic designs for luminescent solar concentrators. SPIE Newsroom, 0, , .	0.1	0
61	Optical Materials for Luminescent Solar Concentrators and Solar Module Thermal Management. , 2018, , .		0
62	ALL-OPTICAL PLASMONIC MODULATORS AND INTERCONNECTS. , 0, , 189-223.		0
63	(Invited, Digital Presentation) Circularly Polarized Photoluminescence from Nanostructured Arrays of Light Emitters. ECS Meeting Abstracts, 2022, MA2022-01, 1085-1085.	0.0	0