Vivian E Ferry

List of Publications by Year
in descending order

63	6,402	201674	233421
papers	citations	27 h-index	45 g-index

64	64	64	7883
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Surface Structure Dependent Circular Dichroism in Single and Double Gyroid Metamaterials. Advanced Optical Materials, 2022, 10, .	7.3	3
2	(Invited, Digital Presentation) Circularly Polarized Photoluminescence from Nanostructured Arrays of Light Emitters. ECS Meeting Abstracts, 2022, MA2022-01, 1085-1085.	0.0	0
3	SonosensitizerâEFunctionalized Graphene Nanoribbons for Adhesion Blocking and Sonodynamic Ablation of Ovarian Cancer Spheroids. Advanced Healthcare Materials, 2021, 10, 2001368.	7.6	16
4	Optical approaches for passive thermal management in c-Si photovoltaic modules. Cell Reports Physical Science, 2021, 2, 100430.	5.6	9
5	Light Management in Bifacial Photovoltaics with Spectrally Selective Mirrors. ACS Applied Energy Materials, 2021, 4, 5397-5402.	5.1	7
6	Evaluating Tandem Luminscent Solar Concentrator Performance Based on Luminophore Selection. , 2021, , .		1
7	Insulation or Irradiance: Exploring Why Bifacial Photovoltaics Run Hot. , 2021, , .		2
8	Doping- and Strain-Dependent Electrolyte-Gate-Induced Perovskite to Brownmillerite Transformation in Epitaxial La_{1â€“x}Sr_xCoO_{3â^Î´} Films. ACS Applied Materials & Interfaces, 2021, 13, 51205-51217.	8.0	18
9	Bilayer Luminescent Solar Concentrators with Enhanced Absorption and Efficiency for Agrivoltaic Applications. ACS Applied Energy Materials, 2021, 4, 14102-14110.	5.1	14
10	Poly(methyl methacrylate) Films with High Concentrations of Silicon Quantum Dots for Visibly Transparent Luminescent Solar Concentrators. ACS Applied Materials & Interfaces, 2020, 12, 4572-4578.	8.0	36
11	Tuning the Polarization and Directionality of Photoluminescence of Achiral Quantum Dot Films with Chiral Nanorod Dimer Arrays: Implications for Luminescent Applications. ACS Applied Nano Materials, 2019, 2, 5681-5687.	5.0	15
12	Smaller Classes Promote Equitable Student Participation in STEM. BioScience, 2019, 69, 669-680.	4.9	34
13	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
14	Gender Performance Gaps Across Different Assessment Methods and the Underlying Mechanisms: The Case of Incoming Preparation and Test Anxiety. Frontiers in Education, 2019, 4, .	2.1	32
15	Model for Characterization and Optimization of Spectrally Selective Structures to Reduce the Operating Temperature and Improve the Energy Yield of Photovoltaic Modules. ACS Applied Energy Materials, 2019, 2, 3614-3623.	5.1	17
16	Intrinsic measurements of exciton transport in photovoltaic cells. Nature Communications, 2019, 10, 1156.	12.8	28
17	Nanoscale Patterning of Colloidal Nanocrystal Films for Nanophotonic Applications Using Direct Write Electron Beam Lithography. ACS Applied Materials & Interfaces, 2019, 11, 14970-14979.	8.0	21
18	Outdoor Testing of c-Si Photovoltaic Modules with Spectrally-Selective Mirrors for Operating Temperature Reduction. , 2019, , .		1

#	Article	IF	Citations
19	CdSe/CdSâ€“poly(cyclohexylethylene) thin film luminescent solar concentrators. APL Materials, 2019, 7, .	5.1	14
20	Silicon Quantum Dotâ€“Poly(methyl methacrylate) Nanocomposites with Reduced Light Scattering for Luminescent Solar Concentrators. ACS Photonics, 2019, 6, 170-180.	6.6	58
21	Spectrally Selective Mirrors with Combined Optical and Thermal Benefit for Photovoltaic Module Thermal Management. ACS Photonics, 2018, 5, 1528-1538.	6.6	30
22	Designing spectrally-selective mirrors for use in luminescent solar concentrators. Journal of Optics (United Kingdom), 2018, 20, 024009.	2.2	21
23	Reducing Operating Temperature in Photovoltaic Modules. IEEE Journal of Photovoltaics, 2018, 8, 532-540.	2.5	68
24	Optimizing the NIR Fluence Threshold for Nanobubble Generation by Controlled Synthesis of 10â€“40 nm Hollow Gold Nanoshells. Advanced Functional Materials, 2018, 28, 1705272.	14.9	27
25	Performance of Low-Complexity Spectrally Selective One-Dimensional Mirrors for Photovoltaic Thermal Management. , 2018, , .		3
26	Determining the Complex Refractive Index of Neat CdSe/CdS Quantum Dot Films. Journal of Physical Chemistry C, 2018, 122, 21557-21568.	3.1	27
27	Tunable optical chirality in a metamaterial platform with off-resonantly coupled metalâ€“dielectric components. Optics Express, 2018, 26, 17289.	3.4	3
28	Two-layer anti-reflection coatings with optimized sub-bandgap reflection for solar modules. , 2018, , .		4
29	Optical Materials for Luminescent Solar Concentrators and Solar Module Thermal Management. , 2018, , .		0
30	Circular Dichroism of CdSe Nanocrystals Bound by Chiral Carboxylic Acids. ACS Nano, 2017, 11, 12240-12246.	14.6	54
31	Imaging Intra- and Interparticle Acousto-plasmonic Vibrational Dynamics with Ultrafast Electron Microscopy. Nano Letters, 2016, 16, 7302-7308.	9.1	39
32	Integrating Photonics with Luminescent Solar Concentrators: Optical Transport in the Presence of Photonic Mirrors. Journal of Physical Chemistry C, 2016, 120, 20991-20997.	3.1	25
33	Breaking the Limits of Optical Energy Conversion. Optics and Photonics News, 2015, 26, 48.	0.5	7
34	Nanophotonic Luminescent Solar Concentrators. , 2015, , .		1
35	Reversible Aptamer-Au Plasmon Rulers for Secreted Single Molecules. Nano Letters, 2015, 15, 4564-4570.	9.1	91
36	Quantum Dot Luminescent Concentrator Cavity Exhibiting 30-fold Concentration. ACS Photonics, 2015, 2, 1576-1583.	6.6	126

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37	Optical Rotation Reversal in the Optical Response of Chiral Plasmonic Nanosystems: The Role of Plasmon Hybridization. ACS Photonics, 2015, 2, 1253-1259.	6.6	59
38	Circular Dichroism in Off-Resonantly Coupled Plasmonic Nanosystems. Nano Letters, 2015, 15, 8336-8341.	9.1	40
39	Luminescent Solar Concentration with Semiconductor Nanorods and Transfer-Printed Micro-Silicon Solar Cells. ACS Nano, 2014, 8, 44-53.	14.6	153
40	Symmetry Breaking in Tetrahedral Chiral Plasmonic Nanoparticle Assemblies. ACS Photonics, 2014, 1, 1189-1196.	6.6	43
41	Nonmonotonic Size Dependence in the Hole Mobility of Methoxide-Stabilized PbSe Quantum Dot Solids. ACS Nano, 2013, 7, 6774-6781.	14.6	32
42	Accounting for Localized Defects in the Optoelectronic Design of Thin-Film Solar Cells. IEEE Journal of Photovoltaics, 2013, 3, 599-604.	2.5	18
43	Accounting for localized defects in the optoelectronic design of thin-film solar cells. , 2013, , .		0
44	Light trapping in plasmonic photovoltaics. , 2012, , .		0
45	Accounting for localized defects in the optoelectronic design of thin-film solar cells. , 2012, , .		2
46	Dielectric Coreâ€“Shell Optical Antennas for Strong Solar Absorption Enhancement. Nano Letters, 2012, 12, 3674-3681.	9.1	106
47	Design of Nanostructured Solar Cells Using Coupled Optical and Electrical Modeling. Nano Letters, 2012, 12, 2894-2900.	9.1	224
48	Conformal plasmonic a-Si:H solar cells with non-periodic light trapping patterns. , 2011, , .		0
49	Modeling Light Trapping in Nanostructured Solar Cells. ACS Nano, 2011, 5, 10055-10064.	14.6	205
50	Optimized Spatial Correlations for Broadband Light Trapping Nanopatterns in High Efficiency Ultrathin Film a-Si:H Solar Cells. Nano Letters, 2011, 11, 4239-4245.	9.1	350
51	Broadband polarization-independent resonant light absorption using ultrathin plasmonic super absorbers. Nature Communications, 2011, 2, 517.	12.8	1,464
52	Photovoltaic Performance of Ultrasmall PbSe Quantum Dots. ACS Nano, 2011, 5, 8140-8147.	14.6	210
53	Light Trapping in Plasmonic Solar Cells. , 2011, , .		6
54	Design Considerations for Plasmonic Photovoltaics. Advanced Materials, 2010, 22, 4794-4808.	21.0	645

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55	Light trapping in ultrathin plasmonic solar cells. Optics Express, 2010, 18, A237.	3.4	587
56	Plasmonic light trapping for thin film A-SI:H solar cells. , 2010, , .		4
57	Improved red-response in thin film a-Si:H solar cells with soft-imprinted plasmonic back reflectors. Applied Physics Letters, 2009, 95, .	3.3	257
58	How much can guided modes enhance absorption in thin solar cells?. Optics Express, 2009, 17, 20975.	3.4	112
59	Plasmonic Nanostructure Design for Efficient Light Coupling into Solar Cells. Nano Letters, 2008, 8, 4391-4397.	9.1	727
60	PLASMONIC PHOTOVOLTAICS. , 2008, , .		0
61	Probing FÃ¶rster and Dexter Energy-Transfer Mechanisms in Fluorescent Conjugated Polymer Chemosensors. Journal of Physical Chemistry B, 2004, 108, 1537-1543.	2.6	306
62	Nanophotonic designs for luminescent solar concentrators. SPIE Newsroom, 0, , .	0.1	0
63	ALL-OPTICAL PLASMONIC MODULATORS AND INTERCONNECTS. , 0, , 189-223.		0