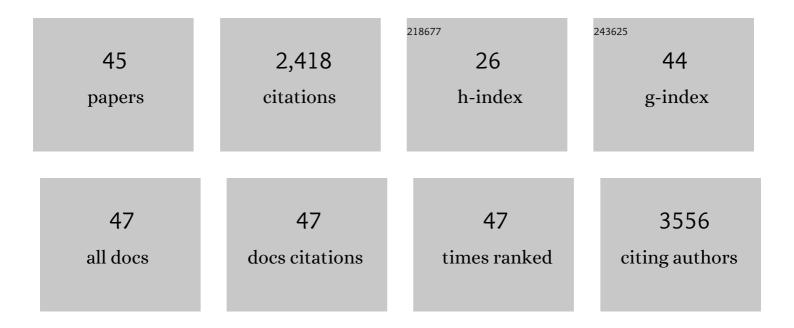
Paul G O'brien

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Synthesis of Black TiO <i>_x</i> Nanoparticles by Mg Reduction of TiO ₂ Nanocrystals and their Application for Solar Water Evaporation. Advanced Energy Materials, 2017, 7, 1601811.	19.5	326
2	The Rational Design of a Single omponent Photocatalyst for Gasâ€Phase CO ₂ Reduction Using Both UV and Visible Light. Advanced Science, 2014, 1, 1400013.	11.2	182
3	Photomethanation of Gaseous CO ₂ over Ru/Silicon Nanowire Catalysts with Visible and Nearâ€Infrared Photons. Advanced Science, 2014, 1, 1400001.	11.2	150
4	Large‣cale Synthesis of Ultrathin Bi ₂ S ₃ Necklace Nanowires. Angewandte Chemie - International Edition, 2008, 47, 3814-3817.	13.8	138
5	Visible and Nearâ€Infrared Photothermal Catalyzed Hydrogenation of Gaseous CO ₂ over Nanostructured Pd@Nb ₂ O ₅ . Advanced Science, 2016, 3, 1600189.	11.2	133
6	Spatial Separation of Charge Carriers in In ₂ O _{3–<i>x</i>} (OH) _{<i>y</i>} Nanocrystal Superstructures for Enhanced Gas-Phase Photocatalytic Activity. ACS Nano, 2016, 10, 5578-5586.	14.6	118
7	Nanostructured Indium Oxide Coated Silicon Nanowire Arrays: A Hybrid Photothermal/Photochemical Approach to Solar Fuels. ACS Nano, 2016, 10, 9017-9025.	14.6	109
8	Photothermal Catalyst Engineering: Hydrogenation of Gaseous CO ₂ with High Activity and Tailored Selectivity. Advanced Science, 2017, 4, 1700252.	11.2	97
9	Heterogeneous reduction of carbon dioxide by hydride-terminated silicon nanocrystals. Nature Communications, 2016, 7, 12553.	12.8	93
10	Silicon Photovoltaics Using Conducting Photonic Crystal Backâ€Reflectors. Advanced Materials, 2008, 20, 1577-1582.	21.0	84
11	Enhanced photothermal reduction of gaseous CO ₂ over silicon photonic crystal supported ruthenium at ambient temperature. Energy and Environmental Science, 2018, 11, 3443-3451.	30.8	83
12	Cross-Linking Bi2S3 Ultrathin Nanowires: A Platform for Nanostructure Formation and Biomolecule Detection. Nano Letters, 2009, 9, 1482-1486.	9.1	75
13	Enhanced Hematite Water Electrolysis Using a 3D Antimony-Doped Tin Oxide Electrode. ACS Nano, 2013, 7, 4261-4274.	14.6	72
14	Enhanced Photoconductivity in Thinâ€Film Semiconductors Optically Coupled to Photonic Crystals. Advanced Materials, 2007, 19, 4177-4182.	21.0	65
15	Organic Light-Emitting Diode Microcavities from Transparent Conducting Metal Oxide Photonic Crystals. Nano Letters, 2011, 11, 1457-1462.	9.1	58
16	Highly Efficient Ambient Temperature CO ₂ Photomethanation Catalyzed by Nanostructured RuO ₂ on Silicon Photonic Crystal Support. Advanced Energy Materials, 2018, 8, 1702277.	19.5	58
17	Seeâ€Through Dyeâ€Sensitized Solar Cells: Photonic Reflectors for Tandem and Building Integrated Photovoltaics. Advanced Materials, 2013, 25, 5734-5741.	21.0	51
18	Activation of Ultrathin Films of Hematite for Photoelectrochemical Water Splitting via H ₂ Treatment. ChemSusChem. 2015. 8. 1557-1567.	6.8	51

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#	Article	IF	CITATIONS
19	Selectively Transparent and Conducting Photonic Crystals. Advanced Materials, 2010, 22, 611-616.	21.0	47
20	Tailoring the Electrical Properties of Inverse Silicon Opals ―A Step Towards Optically Amplified Silicon Solar Cells. Advanced Materials, 2009, 21, 559-563.	21.0	40
21	Photocatalytic Properties of All Four Polymorphs of Nanostructured Iron Oxyhydroxides. ChemNanoMat, 2016, 2, 1047-1054.	2.8	38
22	Morphology-controlled In ₂ O ₃ nanostructures enhance the performance of photoelectrochemical water oxidation. Nanoscale, 2015, 7, 3683-3693.	5.6	37
23	Solar-Driven Interfacial Water Evaporation Using Open-Porous PDMS Embedded with Carbon Nanoparticles. ACS Applied Energy Materials, 2020, 3, 3378-3386.	5.1	37
24	Photonic crystal intermediate reflectors for micromorph solar cells: a comparative study. Optics Express, 2010, 18, 4478.	3.4	34
25	Radiative cooling for buildings: A review of techno-enviro-economics and life-cycle assessment methods. Renewable and Sustainable Energy Reviews, 2022, 162, 112415.	16.4	31
26	Selectively transparent and conducting photonic crystal solar spectrum splitters made of alternating sputtered indium-tin oxide and spin-coated silica nanoparticle layers for enhanced photovoltaics. Solar Energy Materials and Solar Cells, 2012, 102, 173-183.	6.2	30
27	Flash Nanoâ€Welding: Investigation and Control of the Photothermal Response of Ultrathin Bismuth Sulfide Nanowire Films. Advanced Materials, 2010, 22, 4395-4400.	21.0	24
28	See-through amorphous silicon solar cells with selectively transparent and conducting photonic crystal back reflectors for building integrated photovoltaics. Applied Physics Letters, 2013, 103, 221109.	3.3	24
29	Selectively transparent and conducting photonic crystal rear-contacts for thin-film silicon-based building integrated photovoltaics. Optics Express, 2011, 19, 17040.	3.4	23
30	Enhancing photovoltaics with broadband high-transparency glass using porosity-tuned multilayer silica nanoparticle anti-reflective coatings. RSC Advances, 2014, 4, 31188-31195.	3.6	15
31	Heat Generated Using Luminescent Solar Concentrators for Building Energy Applications. Energies, 2020, 13, 5574.	3.1	13
32	Numerical evaluation of one-dimensional transparent photonic crystal heat mirror coatings for parabolic dish concentrator receivers. Renewable Energy, 2021, 171, 1202-1212.	8.9	12
33	Growth of Metal Nanocrystals on Nanostructured Metal Oxidesâ~'Dramatic Effect of Antimony Doping. Chemistry of Materials, 2011, 23, 1353-1355.	6.7	11
34	From Bare Metal Powders to Colloidally Stable TCO Dispersions and Transparent Nanoporous Conducting Metal Oxide Thin Films. Small, 2012, 8, 3806-3809.	10.0	11
35	Transparent Photonic Crystal Heat Mirrors for Solar Thermal Applications. Energies, 2020, 13, 1464.	3.1	11
36	Evaluation of a ZrO2/ZrO2-aerogel one-dimensional photonic crystal as an optical filter for thermophotovoltaic applications. Thermal Science and Engineering Progress, 2021, 25, 100968.	2.7	11

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#	Article	IF	CITATIONS
37	Solar Fuels: Highly Efficient Ambient Temperature CO ₂ Photomethanation Catalyzed by Nanostructured RuO ₂ on Silicon Photonic Crystal Support (Adv. Energy Mater. 9/2018). Advanced Energy Materials, 2018, 8, 1870041.	19.5	7
38	Nanoporous transparent and conducting films and photonic crystals. Optical Materials Express, 2013, 3, 2055.	3.0	3
39	Elliptic Array Luminescent Solar Concentrators for Combined Power Generation and Microalgae Growth. Energies, 2021, 14, 5229.	3.1	3
40	Ellipsoidal Optical Cavities for Enhanced Thermophotovoltaics. IEEE Journal of Photovoltaics, 2022, 12, 353-363.	2.5	3
41	Photothermal Catalysis: Photothermal Catalyst Engineering: Hydrogenation of Gaseous CO ₂ with High Activity and Tailored Selectivity (Adv. Sci. 10/2017). Advanced Science, 2017, 4, .	11.2	2
42	Elliptic paraboloid-based solar spectrum splitters for self-powered photobioreactors. Renewable Energy, 2021, 163, 1773-1785.	8.9	2
43	Carbon Dioxide Reduction: Visible and Near-Infrared Photothermal Catalyzed Hydrogenation of Gaseous CO2 over Nanostructured Pd@Nb2 O5 (Adv. Sci. 10/2016). Advanced Science, 2016, 3, .	11.2	1
44	Analysis Of Thermal Losses In Air-Water Interfacial Solar Heating Systems. , 2018, , .		1
45	Optical characterization of selectively transparent and conducting photonic crystals for use in thin crystalline silicon photovoltaics. , 2013, , .		0