Martin A Green

List of Publications by Citations

606 papers	54,427 citations	110 h-index	220 g-index
669 ext. papers	61,937 ext. citations	7 avg, IF	8.44 L-index

#	Paper	IF	Citations
606	The emergence of perovskite solar cells. *Nature Photonics*, **2014**, 8, 506-514	33.9	4538
605	Surface plasmon enhanced silicon solar cells. *Journal of Applied Physics*, **2007**, 101, 093105	2.5	1396
604	Solar cell efficiency tables (Version 45). *Progress in Photovoltaics: Research and Applications*, **2015**, 23, 1-9	6.8	1325
603	Solar cell efficiency tables (version 39). *Progress in Photovoltaics: Research and Applications*, **2012**, 20, 12-20	6.8	938
602	Optical properties of intrinsic silicon at 300 K. *Progress in Photovoltaics: Research and Applications*, **1995**, 3, 189-192	6.8	858
601	Improving solar cell efficiencies by down-conversion of high-energy photons. *Journal of Applied Physics*, **2002**, 92, 1668-1674	2.5	793
600	Self-consistent optical parameters of intrinsic silicon at 300 K including temperature coefficients. *Solar Energy Materials and Solar Cells*, **2008**, 92, 1305-1310	6.4	756
599	19.8% efficient "honeycomb" textured multicrystalline and 24.4% monocrystalline silicon solar cells. *Applied Physics Letters*, **1998**, 73, 1991-1993	3.4	752
598	Light trapping properties of pyramidally textured surfaces. *Journal of Applied Physics*, **1987**, 62, 243-249	2.5	691
597	Solar cell efficiency tables (version 50). *Progress in Photovoltaics: Research and Applications*, **2017**, 25, 668-676	6.8	663
596	Improving solar cell efficiencies by up-conversion of sub-band-gap light. *Journal of Applied Physics*, **2002**, 92, 4117-4122	2.5	642
595	Solar cell efficiency tables (version 51). *Progress in Photovoltaics: Research and Applications*, **2018**, 26, 3-12	6.8	622
594	Solar cell efficiency tables (version 41). *Progress in Photovoltaics: Research and Applications*, **2013**, 21, 1-11	6.8	618
593	Solar cell efficiency tables (version 37). *Progress in Photovoltaics: Research and Applications*, **2011**, 19, 84-92	6.8	614
592	Solar cell efficiency tables (Version 53). *Progress in Photovoltaics: Research and Applications*, **2019**, 27, 3-12	6.8	540
591	Solar cell efficiency tables (Version 55). *Progress in Photovoltaics: Research and Applications*, **2020**, 28, 3-15	6.8	533
590	Solar cell efficiency tables (version 54). *Progress in Photovoltaics: Research and Applications*, **2019**, 27, 565-575	6.8	516

589	Solar cell efficiency tables (version 49). *Progress in Photovoltaics: Research and Applications*, **2017**, 25, 3-13	6.8	514
588	Solar cell efficiency tables (version 48). *Progress in Photovoltaics: Research and Applications*, **2016**, 24, 905-913	6.8	512
587	Solar cell efficiency tables (version 47). *Progress in Photovoltaics: Research and Applications*, **2016**, 24, 3-11	6.8	498
586	22.8% efficient silicon solar cell. *Applied Physics Letters*, **1989**, 55, 1363-1365	3.4	497
585	Solar cell efficiency tables (version 52). *Progress in Photovoltaics: Research and Applications*, **2018**, 26, 427-436	6.8	491
584	24□5% Efficiency silicon PERT cells on MCZ substrates and 24□7% efficiency PERL cells on FZ substrates. *Progress in Photovoltaics: Research and Applications*, **1999**, 7, 471-474	6.8	483
583	Silicon nanostructures for third generation photovoltaic solar cells. *Thin Solid Films*, **2006**, 511-512, 654-662	2.2	477
582	The path to 25% silicon solar cell efficiency: History of silicon cell evolution. *Progress in Photovoltaics: Research and Applications*, **2009**, 17, 183-189	6.8	460
581	Third generation photovoltaics: Ultra-high conversion efficiency at low cost. *Progress in Photovoltaics: Research and Applications*, **2001**, 9, 123-135	6.8	457
580	Intrinsic concentration, effective densities of states, and effective mass in silicon. *Journal of Applied Physics*, **1990**, 67, 2944-2954	2.5	451
579	Solar cell efficiency tables (version 44). *Progress in Photovoltaics: Research and Applications*, **2014**, 22, 701-710	6.8	436
578	Solar cell efficiency tables (version 46). *Progress in Photovoltaics: Research and Applications*, **2015**, 23, 805-812	6.8	429
577	Cu2ZnSnS4 solar cells with over 10% power conversion efficiency enabled by heterojunction heat treatment. *Nature Energy*, **2018**, 3, 764-772	62.3	429
576	Luminescent layers for enhanced silicon solar cell performance: Up-conversion. *Solar Energy Materials and Solar Cells*, **2007**, 91, 829-842	6.4	426
575	Efficient silicon light-emitting diodes. *Nature*, **2001**, 412, 805-8	50.4	424
574	Solar cell efficiency tables (version 43). *Progress in Photovoltaics: Research and Applications*, **2014**, 22, 1-9	6.8	420
573	Energy conversion approaches and materials for high-efficiency photovoltaics. *Nature Materials*, **2016**, 16, 23-34	27	378
572	Benefit of Grain Boundaries in Organic-Inorganic Halide Planar Perovskite Solar Cells. *Journal of Physical Chemistry Letters*, **2015**, 6, 875-80	6.4	367

571	Plasmonics for photovoltaic applications. *Solar Energy Materials and Solar Cells*, **2010**, 94, 1481-1486	6.4	367
570	Solar cell efficiency tables (version 57). *Progress in Photovoltaics: Research and Applications*, **2021**, 29, 3-15	6.8	356
569	Solar cell efficiency tables (version 56). *Progress in Photovoltaics: Research and Applications*, **2020**, 28, 629-638	6.8	337
568	Solar cell efficiency tables (version 36). *Progress in Photovoltaics: Research and Applications*, **2010**, 18, 346-352	6.8	335
567	Beneficial Effects of PbI2 Incorporated in Organo-Lead Halide Perovskite Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1502104	21.8	335
566	Silicon quantum dot nanostructures for tandem photovoltaic cells. *Thin Solid Films*, **2008**, 516, 6748-6756	2.2	332
565	Solar cell fill factors: General graph and empirical expressions. *Solid-State Electronics*, **1981**, 24, 788-789	1.7	325
564	. *IEEE Transactions on Electron Devices*, **1991**, 38, 1925-1934	2.9	324
563	Hole Transport Layer Free Inorganic CsPbIBr2 Perovskite Solar Cell by Dual Source Thermal Evaporation. *Advanced Energy Materials*, **2016**, 6, 1502202	21.8	317
562	Thin-film solar cells: review of materials, technologies and commercial status. *Journal of Materials Science: Materials in Electronics*, **2007**, 18, 15-19	2.1	302
561	Lambertian light trapping in textured solar cells and light-emitting diodes: analytical solutions. *Progress in Photovoltaics: Research and Applications*, **2002**, 10, 235-241	6.8	286
560	Critical Role of Grain Boundaries for Ion Migration in Formamidinium and Methylammonium Lead Halide Perovskite Solar Cells. *Advanced Energy Materials*, **2016**, 6, 1600330	21.8	281
559	Solar cell efficiency tables (version 40). *Progress in Photovoltaics: Research and Applications*, **2012**, 20, 606-614	6.8	279
558	Solar cell efficiency tables (version 33). *Progress in Photovoltaics: Research and Applications*, **2009**, 17, 85-94	6.8	273
557	Third generation photovoltaics: solar cells for 2020 and beyond. *Physica E: Low-Dimensional Systems and Nanostructures*, **2002**, 14, 65-70	3	269
556	High Efficiency Silicon Solar Cells		268
555	The current status and future prospects of kesterite solar cells: a brief review. *Progress in Photovoltaics: Research and Applications*, **2016**, 24, 879-898	6.8	267
554	Solar Energy Conversion Toward 1 Terawatt. *MRS Bulletin*, **2008**, 33, 355-364	3.2	266

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552	Over 9% Efficient Kesterite Cu2ZnSnS4 Solar Cell Fabricated by Using Zn1−xCdxS Buffer Layer. *Advanced Energy Materials*, **2016**, 6, 1600046	21.8	260
551	Perovskite Solar Cells: The Birth of a New Era in Photovoltaics. *ACS Energy Letters*, **2017**, 2, 822-830	20.1	259
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549	Solar cell efficiency tables (Version 38). *Progress in Photovoltaics: Research and Applications*, **2011**, 19, 565-572	6.8	258
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546	Efficiency enhancement of solar cells by luminescent up-conversion of sunlight. *Solar Energy Materials and Solar Cells*, **2006**, 90, 3327-3338	6.4	245
545	Silicon quantum dot/crystalline silicon solar cells. *Nanotechnology*, **2008**, 19, 245201	3.4	243
544	The Passivated Emitter and Rear Cell (PERC): From conception to mass production. *Solar Energy Materials and Solar Cells*, **2015**, 143, 190-197	6.4	237
543	Terawatt-scale photovoltaics: Trajectories and challenges. *Science*, **2017**, 356, 141-143	33.3	227
542	Twenty-four percent efficient silicon solar cells with double layer antireflection coatings and reduced resistance loss. *Applied Physics Letters*, **1995**, 66, 3636-3638	3.4	227
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531	Optical Properties of Photovoltaic Organic-Inorganic Lead Halide Perovskites. *Journal of Physical Chemistry Letters*, **2015**, 6, 4774-85	6.4	199
530	CsPbIBr2 Perovskite Solar Cell by Spray-Assisted Deposition. *ACS Energy Letters*, **2016**, 1, 573-577	20.1	196
529	Methylammonium Lead Bromide Perovskite-Based Solar Cells by Vapor-Assisted Deposition. *Journal of Physical Chemistry C*, **2015**, 119, 3545-3549	3.8	195
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526	Recent developments in photovoltaics. *Solar Energy*, **2004**, 76, 3-8	6.8	190
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519	Solar cell efficiency tables (Version 58). *Progress in Photovoltaics: Research and Applications*, **2021**, 29, 657	6.8	151
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516	Solar cell efficiency tables (Version 31). *Progress in Photovoltaics: Research and Applications*, **2008**, 16, 61-67	6.8	146
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507	Accelerated Lifetime Testing of Organic-Inorganic Perovskite Solar Cells Encapsulated by Polyisobutylene. *ACS Applied Materials & Interfaces*, **2017**, 9, 25073-25081	9.5	118
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