

# Billy D O Richards

## List of Publications by Year in descending order

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33  
papers

1,091  
citations

687363

13  
h-index

580821

25  
g-index

34  
all docs

34  
docs citations

34  
times ranked

925  
citing authors

#	ARTICLE	IF	CITATIONS
1	Femtosecond pulsed laser deposited Er <sup>3+</sup> -doped zinc-sodium tellurite glass on Si: Thin-film structural and photoluminescence properties. AIP Advances, 2019, 9, .	1.3	2
2	Tm <sup>3+</sup> Tellurite-Modified-Silica Glass Thin Films Fabricated Using Ultrafast Laser Plasma Doping. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-8.	2.9	1
3	A photochemical approach for a fast and self-limited covalent modification of surface supported graphene with photoactive dyes. Nanotechnology, 2018, 29, 275705.	2.6	6
4	Femtosecond laser ablation properties of Er <sup>3+</sup> ion doped zinc-sodium tellurite glass. Journal of Applied Physics, 2018, 124, .	2.5	16
5	Lasers Utilising Tellurite Glass-Based Gain Media. Springer Series in Materials Science, 2017, , 101-130.	0.6	8
6	White light induced covalent modification of graphene using a phenazine dye. Chemical Communications, 2017, 53, 10715-10718.	4.1	11
7	Femtosecond pulsed laser deposition of silicon thin films. Nanoscale Research Letters, 2013, 8, 272.	5.7	21
8	Erbium- <sup>3+</sup> Doped Tellurite Glass Fibers and Waveguides- <sup>2</sup> Devices and Future Prospective: Part II. International Journal of Applied Glass Science, 2013, 4, 202-213.	2.0	8
9	Erbium- <sup>3+</sup> Doped Tellurite Glasss Fibers and Waveguides - <sup>2</sup> Devices and Future Prospective: <sup>1</sup> PART I. International Journal of Applied Glass Science, 2013, 4, 192-201.	2.0	4
10	Reduction of OH <sup>-</sup> ions in tellurite glasses using chlorine and oxygen gases. Journal of Materials Research, 2013, 28, 3226-3233.	2.6	13
11	Tm <sup>3+</sup> doped silicon thin film and waveguides for mid-infrared sources. Applied Physics Letters, 2012, 101, .	3.3	11
12	Mid-infrared emission from Dy <sup>3+</sup> -doped tellurite bulk glass and waveguides. , 2012, , .		1
13	Rare-earth ion doped TeO <sub>2</sub> and GeO <sub>2</sub> glasses as laser materials. Progress in Materials Science, 2012, 57, 1426-1491.	32.8	374
14	Enhanced 2.0 <sup>1</sup> / <sub>4</sub> m emission and energy transfer in Yb <sup>3+</sup> /Ho <sup>3+</sup> /Ce <sup>3+</sup> triply doped tellurite glass. Journal of Non-Crystalline Solids, 2012, 358, 1644-1648.	3.1	34
15	Oxide glasses for mid-infrared lasers. Proceedings of SPIE, 2011, , .	0.8	11
16	Two micron tellurite fibre lasers. , 2011, , .		0
17	Engineering rare-earth-doped heavy metal oxide glasses for 2-5 <sup>1</sup> / <sub>4</sub> m lasers. , 2010, , .		3
18	<sup>1</sup> / <sub>2</sub> 2 <sup>1</sup> / <sub>4</sub> m Tm <sup>3+</sup> /Yb <sup>3+</sup> -doped tellurite fibre laser. Journal of Materials Science: Materials in Electronics, 2009, 20, 317-320.	2.2	14

#	ARTICLE	IF	CITATIONS
19	Investigation on germanium oxide-based glasses for infrared optical fibre development. Optical Materials, 2009, 31, 1701-1706.	3.6	48
20	Theoretical Modeling of a $\sim 2\text{-}\mu\text{m}$ - $\text{Tm}^{3+}$ -Doped Tellurite Fiber Laser: The Influence of Cross Relaxation. Journal of Lightwave Technology, 2009, 27, 4026-4032.	4.6	20
21	Numerical Rate Equation Modeling of a $\sim 2.1\text{-}\mu\text{m}$ - $\text{Tm}^{3+}/\text{Ho}^{3+}$ Co-Doped Tellurite Fiber Laser. Journal of Lightwave Technology, 2009, 27, 4280-4288.	4.6	36
22	Recent advances in mid-IR optical fibres for chemical and biological sensing in the 2-15 $\frac{1}{4}$ $\mu\text{m}$ spectral range. , 2009, , .		3
23	Numerical rate equation modelling of a 1.61 $\frac{1}{4}$ $\mu\text{m}$ pumped $\sim 2\frac{1}{4}$ $\mu\text{m}$ $\text{Tm}^{3+}$ -doped tellurite fibre laser. , 2008, , .		1
24	Efficient $\sim 2\frac{1}{4}$ $\mu\text{m}$ $\text{Tm}^{3+}$ -doped tellurite fiber laser. Optics Letters, 2008, 33, 402.	3.3	123
25	$\text{Tm}^{3+}/\text{Ho}^{3+}$ codoped tellurite fiber laser. Optics Letters, 2008, 33, 1282.	3.3	65
26	A $\text{Yb}^{3+}/\text{Tm}^{3+}/\text{Ho}^{3+}$ triply-doped tellurite fibre laser. Optics Express, 2008, 16, 10690.	3.4	73
27	CW and Q-switched 2.1 $\frac{1}{4}$ $\mu\text{m}$ $\text{Tm}^{3+}/\text{Ho}^{3+}/\text{Yb}^{3+}$ -triply-doped tellurite fibre lasers. Proceedings of SPIE, 2008, , .	0.8	2
28	Efficient 1.9 $\frac{1}{4}$ $\mu\text{m}$ $\text{Tm}^{3+}/\text{Yb}^{3+}$ -doped tellurite fibre laser. Proceedings of SPIE, 2007, , .	0.8	0
29	Infrared emission and energy transfer in $\text{Tm}^{3+}$ , $\text{Tm}^{3+}-\text{Ho}^{3+}$ and $\text{Tm}^{3+}-\text{Yb}^{3+}$ -doped tellurite fibre. Optics Express, 2007, 15, 6546.	3.4	98
30	Rare-earth doped glass waveguides for visible, near-IR and mid-IR lasers and amplifiers. Journal of Materials Science: Materials in Electronics, 2007, 18, 315-320.	2.2	9
31	Enhancement in pump inversion efficiency at 980 nm in $\text{Er}^{3+}$ , $\text{Er}^{3+}/\text{Eu}^{3+}$ and $\text{Er}^{3+}/\text{Ce}^{3+}$ -doped tellurite glass fibers. Optics Express, 2006, 14, 5050.	3.4	73
32	Time resolve spectroscopy and energy transfer in $\text{Tm}^{3+}-\text{Ho}^{3+}$ and $\text{Tm}^{3+}-\text{Tb}^{3+}$ -doped tellurite glasses. , 2006, , .		1
33	Emission spectroscopy and energy transfer in $\text{Tm}^{3+}$ , $\text{Tm}^{3+}-\text{Ho}^{3+}$ and $\text{Tm}^{3+}-\text{Yb}^{3+}$ -doped tellurite fibers. , 2006, , .		1