2017 Impact Factor Citations

As at 11 Jan 2018,

Mock Impact Factor 2017 = (Number of cites in 2017 of papers in 2015 & 2016) / (Number of papers in 2015 & 2016)

= (54 + 90) cites ÷ (8 + 20) articles = 144 / 28 = 5.1429

(only research articles are counted, but not editorials)

Impact Factor for 2017

IF Year Cited	Articles in 2015	Number of Citations	Number of Citations	Cited In
2017	**Smart hydrogels for 3D bioprinting** Shuai Wang, Jia Min Lee, Wai Yee Yeong (2015)	48/15	15	**1. A highly printable and biocompatible hydrogel composite for direct printing of 1 soft and perfusable vasculature-like structures** Ratima Suntornnond, Edgar Yong Sheng Tan, Jia An, Chee Kai Chua SCIENTIFIC REPORTS Volume: 7 Article Number: 16902 Published: 2017
				2.3D bioprinting of soft materials-based regenerative vascular structures and tissues Zimeng Zhang, et al. Vol 123, Aug 2017, pp 279–291
				3. 3D bioprinting for drug discovery and development in pharmaceutics Weijie Peng, et al. Acta Biomaterialia Vol 57, 15 July 2017, Pages 26–46
				4. Two-Photon-Induced Microstereolithography of Chitosan-*g*-Oligolactides as a Function of Their Stereochemical Composition Tatiana S. Demina, et al. Polymers 2017, 9(7), 302
				5. A Thermogelling Supramolecular Hydrogel with Sponge-Like Morphology as a Cytocompatible Bioink Thomas Lorson, et al. Biomacromolecules 2017, 18 (7), pp 2161–2171
				6. Three-Dimensional BioPrinting: Towards the Era of Manufacturing Human Organs as Spare Parts for Healthcare and Medicine Tanveer Ahmad Mir, et al. Tissue Engineering Part B: Reviews. June 2017, 23(3): 245-256

				7. Development of a novel alginate-polyvinyl alcohol-hydroxyapatite hydrogel for 3D bioprinting bone tissue engineered scaffolds By: Bendtsen, Stephanie T.; et al. JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A Volume: 105 Issue: 5 Pages: 1457-1468 Published: MAY 2017
				8. Bioprinting: an assessment based on manufacturing readiness levels By: Wu Changsheng; Wang Ben; Zhang, Chuck; et al. CRITICAL REVIEWS IN BIOTECHNOLOGY Volume: 37 Issue: 1 Pages: 137-137 Published: 2017
				9. Investigation of cell viability and morphology in 3D bio-printed alginate constructs with tunable stiffness By: Shi, Pujiang; Laude, Augustinus; Yeong, Wai Yee JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A Volume: 105 Issue: 4 Pages: 1009-1018 Published: APR 2017
				10. Microvalve-based bioprinting - process, bio-inks and applications By: Ng, Wei Long; Lee, Jia Min; Yeong, Wai Yee; et al. BIOMATERIALS SCIENCE Volume: 5 Issue: 4 Pages: 632-647 Published: APR 2017
				11. The bioink: A comprehensive review on bioprintable materials By: Hospodiuk, Monika; Dey, Madhuri; Sosnoski, Donna; et al. BIOTECHNOLOGY ADVANCES Volume: 35 Issue: 2 Pages: 217-239 Published: MAR-APR 2017

				12. 3D bioprinting of functional human skin: production and in vivo analysis Cubo, Nieves; et al. BIOFABRICATION Volume: 9 Issue: 1 Article Number: 015006 Published: MAR 2017
				13. 3D printable conducting hydrogels containing chemically converted graphene By: Sayyar, Sepidar; Gambhir, Sanjeev; Chung, Johnson; et al. NANOSCALE Volume: 9 Issue: 5 Pages: 2038-2050 Published: 2017
				14. NON-STATIONARY HEAT TRANSFER IN GELS APPLIED TO BIOTECHNOLOGY By: Pokusaev, Boris; Vyazmin, Andrey; Zakharov, Nikolay; et al. THERMAL SCIENCE Volume: 21 Issue: 5 Pages: 2237-2246 Published: 2017
				15. Bioprinting of Thermoresponsive Hydrogels for Next Generation Tissue Engineering: A Review Suntornnond, R., An, J., Chua, C.K. Macromolecular Materials and Engineering 302 (1), 1600266, 2017
2017	**3D food printing–an innovative way of mass customization in food fabrication** J Sun, Z Peng, L Yan, JYH Fuh… - International Journal of Bioprinting 2015	26/7	22	**1. A new 3D-printed photoelectrocatalytic reactor combining the benefits of a transparent electrode and the Fenton reaction for advanced wastewater treatment** By: Mousset, Emmanuel; Weiqi, Victor Huang; Kai, Brandon Foong Yang; et al. JOURNAL OF MATERIALS CHEMISTRY A Volume: 5 Issue: 47 Pages: 24951-24964 Published: DEC 21 2017
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				3. A review of efforts to reduce membrane fouling by control of feed spacer characteristics Hadeel Subhi Abid, Daniel James Johnson, Raed Hashaikeh, Nidal Hilal Desalination Vol 420, 15 Oct 2017, pp 384-402
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				Ratima Suntornnond, Edgar Yong Sheng Tan, Jia An, Chee Kai Chua SCIENTIFIC REPORTS Volume: 7 Article Number: 16902 Published: 2017
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2017	**A novel 3D printing method for cell alignment and differentiation** R Bhuthalingam, PQ Lim, SA Irvine… - International Journal …, 2015	20/4	33	**1. Cellulose Nanofiber Alignment Using Evaporation-Induced Droplet-Casting, and Cell Alignment on Aligned Nanocellulose Surfaces** Anne Skogberg, Antti-Juhana Mäki, Marja Mettänen, Panu Lahtinen and Pasi Kallio Biomacromolecules 2017, 18 (12), pp 3936–3953
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				4. 3D Printed Polycaprolactone Carbon Nanotube Composite Scaffolds for Cardiac Tissue Engineering By: Ho, Chee Meng Benjamin; Mishra, Abhinay; Lin, Pearlyn Teo Pei; et al. MACROMOLECULAR BIOSCIENCE Volume: 17 Issue: 4 Published: APR 2017
2017	**The trend towards in vivo bioprinting** M Wang, J He, Y Liu, M Li, D Li, Z Jin International Journal of Bioprinting 2015	21/11	44	**1. A highly printable and biocompatible hydrogel composite for direct printing of 1 soft and perfusable vasculature-like structures** Ratima Suntornnond, Edgar Yong Sheng Tan, Jia An, Chee Kai Chua SCIENTIFIC

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				4. Engineering-derived approaches for iPSC preparation, expansion, differentiation and applications Yang Li, Ling Li, Zhi-Nan Chen, Ge Gao, Rui Yao and Wei Sun BIOFABRICATION Vol 9, Issue 3, Art icle Number 032001, Sep 2017
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2017	**A novel bioactive PEEK/HA composite with controlled 3D interconnected HA network**	15/4	48	**1. Characterization approach on the extrusion process of bioceramics for the 3D printing of bone tissue**

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Impact Factor for 2017

IF Year Cited	Articles in 2016	Number of Citations	Number of Citations	Cited In
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				2. Two-Way 4D Printing: A Review on the Reversibility of 3D-Printed Shape Memory Materials Amelia Yilin Lee, Jia An, Chee Kai Chua Engineering 2017, Vol 3, Issue 5, pp 663-674
				3. A brief review of extrusion-based tissue scaffold bio-printing Liqun Ning, Xiongbiao Chen Biotechnology Journal Vol 12, Issue 8 Aug 2017 1600671
				4. Fundamentals and applications of 3D printing for novel materials Jian-Yuan Lee, Jia An, Chee Kai Chua Applied Materials Today Vol 7, June 2017, pp 120–133
				5. Bioprinting for vascular and vascularized tissue biofabrication Datta, Pallab; et al. ACTA BIOMATERIALIA Vol 51, pp 1-20, MAR 15 2017
				6. Special Issue: 3D Printing for Biomedical Engineering Chee Kai Chua , et al. Materials 2017, 10(3), 243

				7. Post-printing surface modification and functionalization of 3D-printed biomedical device By: Zhang, Yi INTERNATIONAL JOURNAL OF BIOPRINTING Volume: 3 Issue: 2 Pages: 93-99 Published: 2017
				8. Bioprinting of Thermoresponsive Hydrogels for Next Generation Tissue Engineering: A Review Suntornnond, R., An, J., Chua, C.K. Macromolecular Materials & Engg 302 (1), 1600266, 2017
				9. Tissue transformation mold design and stereolithography fabrication Zheng, Yihao; et al. RAPID PROTOTYPING JOURNAL Vol 23, Issue 1, pp 162-168, 2017
2017	**Polyelectrolyte gelatin-chitosan hydrogel optimized for 3D bioprinting in skin tissue engineering** WL Ng, WY Yeong, MW Naing 2016 IJB	38/14	77	**1. A highly printable and biocompatible hydrogel composite for direct printing of 1 soft and perfusable vasculature-like structures** Ratima Suntornnond, Edgar Yong Sheng Tan, Jia An, Chee Kai Chua SCIENTIFIC REPORTS Vol 7 Article Number: 16902 Published: 2017
				2. Chitosan as a bioactive polymer: Processing, properties and applications A. Muxika, et al. International Journal of Biological Macromolecules Vol 105, Part 2, Dec 2017, pp 1358-1368
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				5. 3D bioprinting and the current applications in tissue engineering Ying Huang, et al. Biotechnology Journal Vol 12, Issue 8 Aug 2017 1600734
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				8. Investigation of cell viability and morphology in 3D bio-printed alginate constructs with tunable stiffness By: Shi, Pujiang; Laude, Augustinus; Yeong, Wai Yee JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART A Vol 105, Issue 4, Pp 1009-1018, Apr 2017
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2017	**3D bioprinting for tissue engineering: Stem cells in hydrogels** N Mehrban, GZ Teoh, MA Birchall 2016 IJB	17/8	85	**1. A brief review of extrusion-based tissue scaffold bio-printing** Liqun Ning, Xiongbiao Chen Biotechnology Journal Vol 12, Issue 8 Aug 2017 1600671
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	2016 IJB			Sandra Sánchez-Salcedo, et al. Acta Biomaterialia Vol 57, 15 July 2017, pp 472–486
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2017	**Advancing cancer research using bioprinting for tumor-on-a-chip platforms** S Knowlton, A Joshi, B Yenilmez, IT Ozbolat 2016 IJB	13/8	97	**1. The recent development and applications of fluidic channels by 3D printing** Yufeng Zhou JOURNAL OF BIOMEDICAL SCIENCE Volume: 24 Article Number: 80 OCT 18 2017
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