

2016 Citations

IF Year Cited	Articles in 2015	Number of Citations	Number of Citations	Cited In
2016	Smart hydrogels for 3D bioprinting Shuai Wang, Jia Min Lee, Wai Yee Yeong (2015)	3	3	A perspective on 4D bioprinting J An, CK Chua, V Mironov 2016 IJB
				Bioprinting in cardiovascular tissue engineering: a review JM Lee, SL Sing, EYS Tan, WY Yeong 2016 IJB
				3D bioprinting for tissue engineering: Stem cells in hydrogels N Mehrban, GZ Teoh, MA Birchall 2016 IJB
2016	Creation of a vascular system for organ manufacturing L Liu, X Wang International Journal of Bioprinting, 2015	1	4	Bioprinting in cardiovascular tissue engineering: a review JM Lee, SL Sing, EYS Tan, WY Yeong 2016 IJB
2016	The trend towards in vivo bioprinting M Wang, J He, Y Liu, M Li, D Li, Z Jin International Journal of Bioprinting 2015	1	5	3D bioprinting technology for regenerative medicine applications D Sundaramurthi, S Rauf, C Hauser 2016 IJB

Impact Factor for 2016

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2016	<p>Smart hydrogels for 3D bioprinting Shuai Wang, Jia Min Lee, Wai Yee Yeong (2015)</p>	34(+1)/15 Advanced Healthcare Materials	15	<p>1. ENHANCING THE HYDROPHILICITY AND CELL ATTACHMENT OF 3D PRINTED PCL/GRAPHENE SCAFFOLDS FOR BONE TISSUE ENGINEERING</p> <p>Weiguang Wang, Guilherme Caetano, William Stephen Ambler, Jonny James Blaker, Marco Andrey Frade, Parthasarathi Mandal, Carl Diver, Paulo Bártolo Materials 2016, 9(12), 992</p> <p>2. Design and Printing Strategies in 3D Bioprinting of Cell-Hydrogels: A Review</p> <p>Lee, J.M., Yeong, W.Y. Advanced Healthcare Materials 5 (22), pp. 2856-2865, 2016</p> <p>3. Evolution of 3D printed soft actuators Ali Zolfagharian, Abbas Z. Kouzani, Sui Yang Khoo, Amir Ali Amiri Moghadam, Ian Gibson, Akif Kaynak Sensors and Actuators A: Physical Volume 250, 15 October 2016, Pages 258–272</p> <p>4. 3D bioprinting of skin: a state-of-the-art review on modelling, materials, and processes S Vijayavenkataraman, W F Lu and J Y H Fuh Biofabrication, 8(3), 032001</p> <p>5. A mathematical model on the resolution of extrusion bioprinting for development of new bioinks Ratima Suntornnond, Edgar, Yong Sheng Tan, Jia An and Chee Kai Chua Materials 2016, 9(9), 756</p>

			<p>6. Skin Bioprinting: Impending Reality or Fantasy? Wei Long Ng, Shuai Wang, Wai Yee Yeong, May Win Naing Trends in Biotechnology Vol 34, Issue 9, Sep 2016 pp 689–699</p> <p>7. Biodegradable Polymers and Stem Cells for Bioprinting Meijuan Lei and Xiaohong Wang Molecules 2016, 21(5), 539</p> <p>8. High-performance 3D printing of hydrogels by water-dispersible photoinitiator nanoparticles Pawar, Amol A.; Saada, Gabriel; Cooperstein, Ido; et al. SCIENCE ADVANCES Volume: 2 Issue: 4 Article Number: e1501381 APR 2016</p> <p>9. 3D Printed Hydrogel Soft Actuators By: Zolfagharian, Ali; Kouzani, Abbas Z.; Khoo, Sui Yang; et al. Book Group Author(s): IEEE Conference: IEEE Region 10 Conference (TENCON) Location: SINGAPORE Date: NOV 22-25, 2016 Sponsor(s): IEEE; MEDs Technologies; CST; Infineon; Rolls Royce; Plexim; Keysight Technologies; Rohde & Schwarz; Springer PROCEEDINGS OF THE 2016 IEEE REGION 10 CONFERENCE (TENCON) Pages: 2272-2277 Published: 2016</p> <p>10. Stem cell bioprinting for applications in regenerative medicine Brad J. Tricomi, Andrew D. Dias, David T. Corr Annals of the New York Academy of Sciences Vol 1383, Issue 1, pp 115–124, Nov 2016</p>
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				<p>Manufacturing Pages: 380-384 Published: 2016</p> <p>14. Characterization and evaluation of 3D printed microfluidic chip for cell processing JM Lee, M Zhang, WY Yeong - Microfluidics and Nanofluidics, 2016, 20 (1), 5, pp. 1-15</p> <p>A PRELIMINARY STUDY ON THE EXTRUSION RESOLUTION OF PLURONIC F127 FOR BIOPRINTING THERMO-RESPONSIVE HYDROGEL CONSTRUCTS</p> <p>By: Suntornnond, Ratima; An, Jia; Chua, Chee Kai</p> <p>Edited by: Chua, CK; Yeong, WY; Tan, MJ; et al.</p> <p>Conference: 2nd International Conference on Progress in Additive Manufacturing (Pro-AM) Location: Nanyang Technological Univ, SINGAPORE Date: MAY 16-19, 2016</p> <p>PROCEEDINGS OF THE 2ND INTERNATIONAL CONFERENCE ON PROGRESS IN ADDITIVE MANUFACTURING (PRO-AM 2016) Book Series: Proceedings of the International Conference on Progress in Additive Manufacturing Pages: 324-329 Published: 2016</p>
2016	<p>Concentric bioprinting of alginate-based tubular constructs using multi-nozzle extrusion-based technique EYS Tan, WY Yeong International Journal of Bioprinting 2015</p>	20(+1)/11 Advanced Healthcare Materials	26	<p>1. Hybrid microsccaffold-based 3D bioprinting of multi-cellular constructs with high compressive strength: A new biofabrication strategy</p> <p>Yu Jun Tan, Xipeng Tan, Wai Yee Yeong & Shu Beng Tor</p> <p>Scientific Reports 39140 14 Dec 2016</p>

			<p>2. Design and Printing Strategies in 3D Bioprinting of Cell-Hydrogels: A Review</p> <p>Lee, J.M., Yeong, W.Y.</p> <p>Advanced Healthcare Materials 5 (22), pp. 2856-2865, 2016</p> <hr/> <p>3. Additive Manufacturing of Patient-Customizable Scaffolds for Tubular Tissues by Melt-drawing Method</p> <p>Yu Jun Tan, Xipeng Tan, Wai Yee Yeong, Shu Beng Tor</p> <p>Materials 2016, 9(11), 893</p> <hr/> <p>4. Bioink properties before, during and after 3D bioprinting</p> <p>Katja Hölzl, Shengmao Lin, Liesbeth Tytgat, Sandra Van Vlierberghe, Linxia Gu and Aleksandr Ovsianikov</p> <p>Biofabrication, 8(3), 032002</p> <hr/> <p>5. Bioprinting and Differentiation of Stem Cells</p> <p>Scott A Irvine, Subbu S Venkatraman</p> <p>Molecules 2016, 21(9), 1188</p> <hr/> <p>6. A mathematical model on the resolution of extrusion bioprinting for development of new bioinks</p> <p>Ratima Suntornnond, Edgar, Yong Sheng Tan, Jia An and Chee Kai Chua</p> <p>Materials 2016, 9(9), 756</p> <hr/> <p>7. Characterization of New PEEK/HA Composites with 3D HA Network Fabricated by Extrusion Freeforming</p> <p>Mohammad Vaezi, Cameron Black, David M. R. Gibbs, Richard O. C. Oreffo, Mark Brady, Mohamed</p>
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				<p>AM) Location: Nanyang Technolog Univ, SINGAPORE Date: MAY 16-19, 2016</p> <p>PROCEEDINGS OF THE 2ND INTERNATIONAL CONFERENCE ON PROGRESS IN ADDITIVE MANUFACTURING (PRO-AM 2016) Book Series: Proceedings of the International Conference on Progress in Additive Manufacturing Pages: 85-90 Published: 2016</p>
				<p>11. A PRELIMINARY STUDY ON THE EXTRUSION RESOLUTION OF PLURONIC F127 FOR BIOPRINTING THERMO-RESPONSIVE HYDROGEL CONSTRUCTS</p> <p>By: Suntornnond, Ratima; An, Jia; Chua, Chee Kai</p> <p>Edited by: Chua, CK; Yeong, WY; Tan, MJ; et al.</p> <p>Conference: 2nd International Conference on Progress in Additive Manufacturing (Pro-AM) Location: Nanyang Technolog Univ, SINGAPORE Date: MAY 16-19, 2016</p> <p>PROCEEDINGS OF THE 2ND INTERNATIONAL CONFERENCE ON PROGRESS IN ADDITIVE MANUFACTURING (PRO-AM 2016) Book Series: Proceedings of the International Conference on Progress in Additive Manufacturing Pages: 324-329 Published: 2016</p>
2017	<p>A novel 3D printing method for cell alignment and differentiation</p> <p>R Bhuthalingam, PQ Lim, SA</p>	13/7	33	<p>1. Automated robotic dispensing technique for surface guidance and bioprinting of cells</p>

	<p>Irvine... - International Journal Bioprinting 2015</p>		<p>Bhuthalingam, R., Lim, P.Q., Irvine, S.A., Venkatraman, S.S. Journal of Visualized Experiments 2016 (117), e54604</p>
			<p>2. Synthesis and Characterization of Types A and B Gelatin Methacryloyl for Bioink Applications Bae Hoon Lee, Nathaniel Lum, Li Yuan Seow, Lay Poh Tan Materials 2016 9(10), 797</p>
			<p>3. Bioprinting and Differentiation of Stem Cells Scott A Irvine, Subbu S Venkatraman Molecules 2016, 21(9), 1188</p>
			<p>4. Characterization of New PEEK/HA Composites with 3D HA Network Fabricated by Extrusion Freeforming Mohammad Vaezi , Cameron Black, David M. R. Gibbs, Richard O. C. Oreffo, Mark Brady , Mohamed Moshrefi-Torbati and Shoufeng Yang Molecules 2016, 21(6), 687</p>
			<p>5. The potential to enhance membrane module design with 3D printing technology Lee, J.-Y., Tan, W.S., An, J., (...), Fane, A.G., Chong, T.H. Journal of Membrane Science 499, pp. 480-490, 2016</p>
			<p>6. Heart-on-a-chip based on stem cell biology E Jastrzebska, E Tomecka, I Jesion - Biosensors and Bioelectronics, Volume 75, 15 January 2016, Pages 67–81</p>
			<p>7. Electrohydrodynamic printing: a potential tool for high-resolution hydrogel/cell patterning Xiang Zhao, Jiankang He, Fangyuan Xu, Yaxiong Liu & Dichen Li Virtual Phys. Prototyp. 11 (1) (2016), Page 57-63</p>

2016	<p>3D food printing—an innovative way of mass customization in food fabrication J Sun, Z Peng, L Yan, JYH Fuh... - International Journal of ..., 2015</p>	10/5	38	<p>1. Molecular Gastronomy Meets 3D Printing: Layered Construction via Reverse Spherification D'Angelo Greta, Hansen Hans N., and Hart A. John. 3D Printing and Additive Manufacturing. September 2016, 3(3): 152-159</p> <p>2. Printing on Food or Food Printing: a Review Food and Bioprocess Technology F. Pallottino, L. Hakola, C. Costa, F. Antonucci, S. F igorilli, A. Seisto, P. Menesatti May 2016, Vol 9, Issue 5, pp 725-733</p> <p>3. 3D food printing - facts and future By: Izdebska, Joanna; Zolek- Tryznowska, Zuzanna AGRO FOOD INDUSTRY HI-TECH Vol 27 Issue 2 pp 33-37 Mar 2016</p> <p>4. The potential to enhance membrane module design with 3D printing technology Lee, J.-Y., Tan, W.S., An, J., (...), Fane, A.G., Chong, T.H. Journal of Membrane Science 499, pp. 480-490, 2016</p> <p>5. Design for Additive Manufacturing: Trends, opportunities, considerations, and constraints Mary Kathryn Thompson, Giovanni Moroni, Tom Vaneker, Georges Fadel, R. Ian Campbell, Ian Gibson, Alain Bernard, Joachim Schulz, Patricia Graf, Bhrigu Ahuja, Filomeno Martina CIRP Annals - Manufacturing Technology Volume 65, Issue 2, 2016, Pages 737–76</p>
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2016	<p>The trend towards in vivo bioprinting M Wang, J He, Y Liu, M Li, D Li, Z Jin International Journal of Bioprinting 2015</p>	10/4	42	<p>1. Skin Bioprinting: Impending Reality or Fantasy? Wei Long Ng, Shuai Wang, Wai Yee Yeong, May Win Naing Trends in Biotechnology Vol 34, Issue 9, Sep 2016 Pp 689–699</p> <p>2. Biodegradable Polymers and Stem Cells for Bioprinting Meijuan Lei and Xiaohong Wang <i>Molecules</i> 2016, 21(5), 539</p> <p>3. The potential to enhance membrane module design with 3D printing technology Lee, J.-Y., Tan, W.S., An, J., (...), Fane, A.G., Chong, T.H. Journal of Membrane Science 499, pp. 480-490, 2016</p> <p>4. A New Area-efficient Reconfigurable Encoder Architecture for Flexible Error Detection and Correction in Dependable Communication Systems By: Pfeifer, Petr; Vierhaus, Heinrich Theodor Book Group Author(s): IEEE Conference: 15th Biennial Blatic Electronics Conference (BEC)Location: Tallinn, ESTONIA Date: OCT 03-05, 2016 Sponsor(s): Tallinn Univ Technol, Thomas Johann Seebeck Dept Elect; Tallinn Univ Technol, Dept Comp Engn; Tallinn Univ Technol, Fac Informat Technol; Tallinn Univ Technol Mektory; Laulasmaa; IEEE; IEEE Estonia Sect; IEEE Circuits & Syst</p> <p>2016 15TH BIENNIAL BLATIC ELECTRONICS CONFERENCE (BEC) Pages: 87-90 Published: 2016</p>
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2016	<p>A novel bioactive PEEK/HA composite with controlled 3D interconnected HA network M Vaezi, S Yang</p> <p>International Journal of Bioprinting 2015</p>	9/4	46	<p>1. Characterization and Bioactivity Evaluation of (Polyetheretherketone/Polyglycolic acid)-Hydroxyapatite Scaffolds for Tissue Regeneration Cijun Shuai, Chenying Shuai, Ping Wu, Fulai Yuan, Pei Feng, Youwen Yang, Wang Guo, Xiaohan Fan, Ting Su, Shuping Peng and Chengde Gao Materials 2016, 9(11), 934</p> <p>2. Characterization of New PEEK/HA Composites with 3D HA Network Fabricated by Extrusion Freeforming Mohammad Vaezi, Cameron Black, David M. R. Gibbs, Richard O. C. Oreffo, Mark Brady, Mohamed Moshrefi-Torbati and Shoufeng Yang Molecules 2016, 21(6), 687</p> <p>3. Polyetheretherketone/poly (glycolic acid) blend scaffolds with biodegradable properties Chenying Shuai, Ping Wu, Yancheng Zhong, Pei Feng, Chengde Gao, Wei Huang, Zhiyang Zhou, Li Chen & Cijun Shuai Journal of Biomaterials Science, Polymer Edition Vol 27 (14), 2016, pp 1434-1446</p> <p>4. Characterization and evaluation of 3D printed microfluidic chip for cell processing Lee, J.M., Zhang, M., Yeong, W.Y. Microfluidics and Nanofluidics 2016, 20 (1), 5, pp. 1-15</p>
2016	<p>Creation of a vascular system for organ manufacturing L Liu, X Wang International Journal of Bioprinting 2015</p>	8(+1)/4 Advanced Healthcare Materials	50	<p>1. 3D bioprinting technologies for hard tissue and organ engineering Xiaohong Wang, Qiang Ao, Xiaohong Tian, Jun Fan, Yujun Wei, Weijian Hou, Hao Tong, Shuling Bai Materials 2016, 9(10), 802</p> <p>2. Biodegradable Polymers and Stem Cells for Bioprinting by Meijuan Lei and Xiaohong Wang Molecules 2016, 21(5), 539</p>

				<p>Design and Printing Strategies in 3D Bioprinting of Cell-Hydrogels: A Review</p> <p>Lee, J.M., Yeong, W.Y.</p> <p>Advanced Healthcare Materials 5 (22), pp. 2856-2865, 2016</p>
2016	<p>Bioprinting with pre-cultured cellular constructs towards tissue engineering of hierarchical tissues</p> <p>M Nakamura, TA Mir, K Arai, S Ito</p> <p>International Journal of Bioprinting 2015</p>	9/2	52	<p>1. A mathematical model on the resolution of extrusion bioprinting for development of new bioinks</p> <p>Ratima Suntornnond, Edgar, Yong Sheng Tan, Jia An and Chee Kai Chua</p> <p>Materials 2016, 9(9), 756</p> <p>2. A PRELIMINARY STUDY ON THE EXTRUSION RESOLUTION OF PLURONIC F127 FOR BIOPRINTING THERMO-RESPONSIVE HYDROGEL CONSTRUCTS</p> <p>By: Suntornnond, Ratima; An, Jia; Chua, Chee Kai</p> <p>Edited by: Chua, CK; Yeong, WY; Tan, MJ; et al.</p> <p>Conference: 2nd International Conference on Progress in Additive Manufacturing (Pro-AM) Location: Nanyang Technolog Univ, SINGAPORE Date: MAY 16-19, 2016</p> <p>PROCEEDINGS OF THE 2ND INTERNATIONAL CONFERENCE ON PROGRESS IN ADDITIVE MANUFACTURING (PRO-AM 2016) Book Series:Proceedings of the International Conference on Progress in Additive Manufacturing Pages: 324-329 Published: 2016</p>