

List of Publications Ille C. Gebeshuber

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Peer-Reviewed Articles and Editorial Material

1. Karman S.B., Diah S.Z.M. and **Gebeshuber I.C.**
Raw materials synthesis from heavy metal industry effluents with bioremediation and phytomining: A biomimetic resource management approach
Advances in Materials Science and Engineering, 2015, in press
2. **Gebeshuber I.C.**
Editorial, Inaugural Issue Journal of Nanomedicine Research
Journal of Nanomedicine Research 1(1), 2014. doi: 10.15406/jnmr.2014.01.00003
3. Diah S.Z.M., Karman S.B. and **Gebeshuber I.C.**
Nanostructural coloration in Malaysian plants: Lessons for biomimetics and biomaterials
Journal of Nanomaterials 2014, Article ID 878409(15p)
4. **Gebeshuber I.C.** and Macqueen M.O.
What is a physicist doing in the jungle? Biomimetics of the rainforest
Applied Mechanics and Materials 461, 2014, 152-162.
doi:10.4028/www.scientific.net/AMM.461.152.
5. Futterknecht O., Macqueen M.O., Karman S., Diah S.Z.M. and **Gebeshuber I.C.**
Biomimetic MEMS sensor array for navigation and water detection
Proc. SPIE, 2013, 87632B (9p). doi:10.1117/12.2016953
6. **Gebeshuber I.C.** and Macqueen M.O.
New Asian Case Method for Tribology: A structured approach for increased problem solving competence in tribology education and research
Tribology – Materials, Surfaces and Interfaces, 2013, 7(2), 69-73. doi: 10.1179/1751584X13Y.0000000027, **invited article**
7. Drack M. and **Gebeshuber I.C.**
Comment on “Innovation through imitation: biomimetic, bioinspired and bioleptik research” by A. E. Rawlings, J. P. Bramble and S. S. Staniland, Soft Matter, 2012, 8, 6675
Soft Matter 9, 2338-2340, 2013. doi: 10.1039/c2sm26722e

8. Karman S.B., Diah S.Z.M. and **Gebeshuber I.C.**
Bio-inspired polarized skylight-based navigation sensors: A review
Sensors 12(11), 14232-14261, 2012. doi: 10.3390/s121114232
9. Ismardi A., Dee C.F., Hamzah A.A., Bais B., Salleh M.M., Majlis B.Y. and **Gebeshuber I.C.**
Co-Synthesis and characterization of In₂O₃ and ZnO nanowires (Sintesis Bersama dan Pencirian bagi Nanowayar In₂O₃ dan ZnO)
Sains Malaysia 41(4), 459-463, 2012. ISSN 0126-6039.
10. **Gebeshuber I.C.** and Roy M.
Guest Editorial: Special Issue on Advanced Materials Engineering: Selected Papers from the Indo-Austrian Symposium 2010
Proc. IMechE Part C: J. Mech. Eng. Sci. 226(C2), Special Issue "Advanced Materials Engineering: Selected Papers from the Indo-Austrian Symposium 2010" (Guest Eds: Ille C. Gebeshuber and Manish Roy), 299-302, 2012.
doi: 10.1177/0954406211435297, **invited article**
11. **Gebeshuber I.C.**
Green nanotribology
Proc. IMechE Part C: J. Mech. Eng. Sci. 226(C2), 2012, Special Issue "Advanced Materials Engineering: Selected Papers from the Indo-Austrian Symposium 2010" (Guest Eds: Ille C. Gebeshuber and Manish Roy), 374-386, 2012
doi: 10.1177/0954406211428020, **invited article**
12. Ismardi Abrar, Dee C.F., **Gebeshuber I.C.** and Majlis B.Y.
Growth and characterization of Indium doped ZnO nanowires using vapor transport deposition method
Adv. Mat. Res. 364, 202-205, 2012. ISSN 1022-6680. doi:
10.4028/www.scientific.net/AMR.364.202
13. Gordon R., Levin S.M. and **Gebeshuber I.C.**
Triggered, nanostructured biodegradables (TNBs) for surgical implants
invited article, Special issue on Bioinspired Micro and Nanosystems, Micro and Nanosystems 3(4), 271-276, 2011. ISSN 1876-4029, doi:
10.2174/1876402911103040271
14. Makarczuk T., Matin T.R., Karman S.B., Diah S.Z.M., Davaji B., Macqueen M.O., Schmid U. and **Gebeshuber I.C.**
Biomimetic MEMS to assist, enhance and expand human sensory perceptions - A survey on state-of-the art developments
Proc. SPIE, 2011, 80661O(15p). doi: 10.1117/12.886554
15. **Gebeshuber I.C.** and Gordon R.
Bioinspiration for tribological systems on the micro- and nanoscale: dynamic, mechanic, surface and structure related functions
invited article, Special issue on Bioinspired Micro and Nanosystems, Micro and Nanosystems 3(4), 284-289, 2011. ISSN 1876-4029, doi:
10.2174/1876402911103040284
16. Macqueen M.O., Mueller J., Dee C.F. and **Gebeshuber I.C.**
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Adv. Mat. Res. 254(8), 34-37, 2011. ISSN 1022-6680.

17. Karman S.B., Macqueen M.O., Matin T.R., Diah S.M., Mueller J., Yunas J., Davaji B., Makarczuk T. and **Gebeshuber I.C.**
On the way to the bionic man: A novel approach to MEMS based on biological sensory systems
Adv. Mat. Res. 254(8), 38-41, 2011. ISSN 1022-6680.
18. Yunas J., Johari J., Bahadorimehr A.R., **Gebeshuber I.C.** and Majlis B.Y.
Investigation of simple process technology for the fabrication of valveless micropumps
Adv. Mat. Res. 254(8), 211-214, 2011. ISSN 1022-6680.
19. **Gebeshuber I.C.** and Majlis B.Y.
3D corporate tourism: A concept for innovation in nanomaterials engineering
Int. J. Mat. Eng. Innov. 2(1), 38-48, 2011, **invited article**. Online ISSN 1757-2762, Print ISSN 1757-2754.
20. Naveira-Suarez A., Tomala A., Pasarihu R., Larsson R. and **Gebeshuber I.C.**
Evolution of ZDDP-derived reaction layer morphology with rubbing time
Scanning 32(5), 294-303, 2010, **invited article**. doi: 10.1002/sca.20207. Online ISSN 1932-8745, ISSN 0161-0457. Incl. **Coverpage**.
21. Doerr N., **Gebeshuber I.C.**, Holzer D., Wanzenboeck H.D., Ecker A., Pauschitz A. and Franek F.
Evaluation of ionic liquids as lubricants
J. Microeng. Nanoel. 1(1), 29-34, 2010. ISSN 2229-3183, **invited article**
22. Yunas J., Johari J., **Gebeshuber I.C.** and Majlis B.Y.
Design and fabrication of MEMS micropumps using double sided etch technique
IMAPS Journal of Microelectronics and Electronic Packaging 7(1), 44-47, 2010. ISSN 1551-4897
23. **Gebeshuber I.C.** and Majlis B.Y.
New ways of scientific publishing and accessing human knowledge inspired by transdisciplinary approaches
Tribology - Surfaces, Materials and Interfaces 4(3), 143-151, 2010. Print ISSN 1751-5831, Online ISSN 1751-584X, doi: 10.1179/175158310X12626998129716
24. Zika T., Buschbeck F., Preisinger G., **Gebeshuber I.C.** and Groeschl M.
Surface damage of rolling bearings caused by discrete current flow
Z. Tribologie und Schmierungstechnik T&S 57(2), 11-14, 2010. ISBN-13 978-3-8169-9999-7, ISSN 0724-3472, **invited article**
25. Tiffany M.A., Gordon R. and **Gebeshuber I.C.**
Hyalodiscopsis plana, a sublittoral centric marine diatom, and its potential for nanotechnology as a natural zipper-like nanoclasp
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26. Tomala A., **Gebeshuber I.C.**, Pauschitz A. and Roy M.
A comparative AFM study of carbon alloyed Mo-Se-C and W-S-C films for tribological applications
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27. **Gebeshuber I.C.**, Majlis B.Y. and Stachelberger H.
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28. Tomala A., Naveira-Suarez A., **Gebeshuber I.C.** and Pasaribu R.
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29. **Gebeshuber I.C.**, Gruber P. and Drack M.
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Proc. IMechE Part C: J. Mech. Eng. Sci. 223(C12), 50st Anniversary Issue, 2899-2918, 2009
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30. Tomala A., Doerr N. and **Gebeshuber I.C.**
Ultraduene Schichten aus Ethanolamin - energieeffiziente wartungsarme Schmierstoffe
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31. Tomala A., Doerr N. and **Gebeshuber I.C.**
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32. Srajer J., Majlis B.Y. and **Gebeshuber I.C.**
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35. **Gebeshuber I.C.**, Holzer D., Goschke R., Aumayr F. and Störi H.
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36. **Gebeshuber I.C.**, Stachelberger H., Ganji B.A., Fu D.C., Yunas J. and Majlis B.Y.
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38. **Gebeshuber I.C.**, Drack M. and Scherge M.
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39. **Gebeshuber I.C.** and Drack M.
An attempt to reveal synergies between biology and engineering mechanics
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40. Bogus A., **Gebeshuber I.C.**, Pauschitz A., Roy M. and Haubner R.
Micro- and nanomechanical properties of diamond film with various surface morphologies
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41. El-Said A.S., Heller R., Meissl W., Ritter R., Facsko S., Lemell C., Solleder B., **Gebeshuber I.C.**, Betz G., Toulemonde M., Möller W., Burgdörfer J. and Aumayr F.
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42. Hekele O., Goesselsberger C.G. and **Gebeshuber I.C.**
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43. Lemell C., El-Said A.S., Meissl W., **Gebeshuber I.C.**, Trautmann C., Toulemonde M, Burgdörfer J. and Aumayr F.
On the nano-hillock formation induced by slow highly charged ions on insulator surfaces
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47. Gruenberger C., Ritter R., Aumayr F., Stachelberger H. and **Gebeshuber I.C.**
Algal biophysics: Euglena gracilis investigated by atomic force microscopy
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48. El-Said A.S., Meissl W., Simon M.C., Crespo López-Urrutia J.R., **Gebeshuber I.C.**, Lang M., Winter HP., Ullrich J. and Aumayr F.
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50. Crawford R.M. and **Gebeshuber I.C.**
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51. Crawford R.M. and **Gebeshuber I.C.**
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52. Crawford R.M., **Gebeshuber I.C.**, Thamatrakoln K. and Hildebrand M.
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63. Petracchi D., **Gebeshuber I.C.**, DeFelice L.J. and Holden A.V.
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Monographs and Edited Scientific Works

1. Masjuki H. M., Kasolang S.B., Koay Mei Hyie K.M., Abdollah M.F., Ghani J.A., **Gebeshuber I.C.**, Fukuda K. et al.
 Proceedings of the Malaysian International Tribology Conference, Kota Kinabalu, Sabah, Malaysian Borneo, November 21-23, 2013
 Procedia Engineering, Elsevier, 2014, ISSN: 1877-7058
2. Goliaei B., Anderson P., **Gebeshuber I.C.**, Rahman S.A. and Bukhari M.H.S. (Eds.)
First Pakistan International Biophysics Symposium
 Abstract Book, Department of Biomedical Engineering, NED University of Engineering & Technology, Karachi, Pakistan, June 2-3, 2012.
3. **Gebeshuber I.C.** and Vanura K. (Eds., 2012)
 6. WINET Symposium *Bausteine des Lebens*: Flüssig, Flüssigkeiten, im Fluß, ...
 Abstract Book, Medical University of Vienna, Vienna, Austria, March 29 - April 1, 2012.
4. **Gebeshuber I.C.** and Roy M. (Guest Eds.)
Advanced Materials Engineering: Selected Papers from the Indo-Austrian Symposium 2010
 Special Issue of Proc. IMechE Part C: J. Mech. Eng. Sci., 226(C2), 2012, SAGE Publishing, 103 pp.
5. Gruber P., Bruckner D., Hellmich C., Schmiedmayer H.-B., Stachelberger H. and **Gebeshuber I.C.** (Eds.)
Biomimetics - Materials, Structures and Processes. Examples, Ideas and Case Studies
 Series: Biological and Medical Physics, Biomedical Engineering, Springer Heidelberg Dordrecht London New York, 2011. Series Editor Claus Ascheron, 123 illus. (53 in color), Hardcover, ISBN 978-3-642-11933-0, eISBN 978-3-642-11934-7, 266 p.
6. **Gebeshuber I.C.**
Biomimetics and Nanotechnology
 UKM Press, Bangi, 2011. ISBN 978-967-412-004-7. 59 pp.
7. **Gebeshuber I.C.**
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8. **Gebeshuber I.C.**, Holden A.V. and Petracchi D. (Guest Eds.)
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Book Chapters

1. **Gebeshuber I.C.** and Macqueen M.O.
Superfast evolution via trans- and interspecies biocommunication
in: Bio-communications. (Eds. Seckbach J. and Gordon R.), The University of Chicago Press, Chicago, USA, accepted.
1. **Gebeshuber I.C.** and Drack M.
Biomimetics in nanotechnology
in: CRC Concise Encyclopedia of Nanotechnology, (Eds. Kharisov B.I., Kharissova O.V. and Méndez U.B.), CRC Press, Boca Raton, FL, USA, in press
2. **Gebeshuber I.C.**
Green nanotribology and related sustainability aspects
in: CRC Concise Encyclopedia of Nanotechnology, (Eds. Kharisov B.I., Kharissova O.V. and Méndez U.B.), CRC Press, Boca Raton, FL, USA, in press
2. **Gebeshuber I.C.**
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In: Springer Handbook of Marine Biotechnology, Part XI (Marine biotechnological products in industrial application), Se-Kwon Kim (Ed.), Springer, Chapter 58, 1800 p., 2015, ISBN 978-3-642-53970-1, pp. 1279-1300.
3. **Gebeshuber I.C.**
Grüne und nachhaltige nanotribologische Systeme im Rahmen der globalen Herausforderungen
In: Nano Risiko Governance Der gesellschaftliche Umgang mit Nanotechnologien, (Eds. Gzásó A. and Haslinger J.), Springer Verlag Wien, 2014, 300 p., ISBN 978-3-7091-1405-6, Ch. 3, pp. 49-80.
4. **Gebeshuber I.C.** and Majlis B.Y.
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In: Nanotechnology in the Edge of Convergence, Ed. Kulshreshtha A.P., Chapter 10, Majlis B.Y., Kostadinov K. G. and Bhatti A.S. (Eds.) COMSATS & NAM S&T Centre 2013, pp. 123-139.
5. Futterknecht O., Macqueen M.O., Karman S., Diah S.Z.M. and **Gebeshuber I.C.**
Bioinspired navigation realized with MEMS
In: Nanotechnology in the Edge of Convergence, Ed. Kulshreshtha A.P., Chapter 11, Majlis B.Y., Kostadinov K. G. and Bhatti A.S. (Eds.) COMSATS & NAM S&T Centre 2013, pp. 141-151.
6. **Gebeshuber I.C.**
Biomimetic inspiration regarding nano-tribology and materials issues in MEMS
In: Nano-Tribology and Materials Issues in MEMS, Eds. Sinha S.K., Satyanarayana N. and Lim S.C., Springer, 273 pages, 2013, ISBN 978-3-642-36934-6, Ch. 2, pp. 53-79.
7. **Gebeshuber I.C.**
We have to establish a common language
In: What is the architect doing in the jungle? Biornametics, Eds. Imhof B. and Gruber P., Edition Angewandte, Springer Wien New York, 100 pages, 2013, ISBN 978-3-7091-1528-2, 68-69.

8. Tomala A., Goecerler H. and **Gebeshuber I.C.**
Bridging nano- and microtribology in mechanical and biomolecular layers
In: Scanning Probe Microscopy in Nanoscience and Nanotechnology, Vol. III, Ed. Bhushan B., NanoScience and Nanotechnology Series, Springer Berlin Heidelberg, 650 pages, 2013, ISBN 978-3-642-25413-0. doi: 10.1007/978-3-642-25414-7_16, Ch. 16, 431-483.
9. **Gebeshuber I.C.** and Lee D.W.
Nanostructures for coloration (organisms other than animals)
In: Springer Encyclopedia of Nanotechnology, Eds. Bhushan B. and Nosonovsky M., Springer, 3200 pages, 2012, ISBN 978-9048197507, 1790-1803.
10. **Gebeshuber I.C.**, Gruber P. and Imhof B.
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In: Springer Encyclopedia of Nanotechnology, Eds. Bhushan B. and Nosonovsky M., Springer, 3200 pages, 2012, ISBN 978-9048197507, 328-329.
11. **Gebeshuber I.C.**
Green Nanotribology and sustainable nanotribology in the frame of the global challenges for humankind
In: Green Tribology: Biomimetics, Energy Conservation, and Sustainability, Eds. Nosonovsky M. and Bhushan B., Series: Green Energy and Technology, Springer Berlin Heidelberg, 632 p., Hardcover, 2012, ISBN 978-3642236808, Ch. 5, 105-125. doi: 10.1007/978-3-642-23681-5_5
12. Gruber P., Bruckner D., Hellmich C., Schmiedmayer H.-B., Stachelberger H. and **Gebeshuber I.C.**
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In: Biomimetics - Materials, Structures and Processes. Examples, Ideas and Case Studies, Eds: Gruber P., Bruckner D., Hellmich C., Schmiedmayer H.-B., Stachelberger H., **Gebeshuber I.C.**, Series: Biological and Medical Physics, Biomedical Engineering, Springer Heidelberg Dordrecht London New York, Series Editor Claus Ascheron, 266 p., 123 illus. (53 in color), Hardcover, July 15, 2011, ISBN 978-3-642-11933-0, v.
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Biomimetics - its technological and societal potential
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