

RESUME

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ACADEMIC BACKGROUND

<u>Qualification</u>	<u>Year</u>	<u>University</u>	<u>Area of Work</u>
B.Sc.	1968	Agra University Science Dept	Chemistry
M.Sc.	1970	Agra University Chemistry Dept	Chemistry
Ph.D.	1974	Agra University Chemistry Dept	Chemistry
D.Sc.	1998	South Gujarat University Chemistry Dept	Chemistry

PROFESSIONAL BACKGROUND

Teaching Experience:

1980-1988: Joined as Associate Professor in Chemistry in South Gujarat, University, Surat, Was head of the Department of Chemistry from December 1981 to April 1983. (Spent one year, April 1983-March 1984 as visiting scientist in France)
1988 - 2014: Full Professor of Chemistry, Veer Narmad South Gujarat University, Surat, India
2008-2014: Head of Chemistry Department.
2014-2017: Faculty Fellow
CURRENT POSITION: Emeritus Fellow Chemistry Department VNSGU Surat India

Research Field: Surface, Colloid and Polymer Chemistry
Research Publications: Published >250 Articles(Citation >6800, H-index 42 Google scholar)
Research Supervisor: 48 Ph.D. and 20 M. Phil students supervised

Overseas visits:

- **Unesco Fellow 1 year Prague 1978**
- **French Govt Fellow 1 years Mulhouse 1984**
- **Fulbright Scholar 6 months Indianapolis 1994**
- **Swedish Nat Res Council Uppsala 4 visits (2 months each) 88-91**
- **Japan Soc Promo Sci Invitation Fellow Saga summer 2005**
- **TWAS Fellow Beijing one month 2006**
- **DAAD Fellow Halle (Germany) one month 2008**
- **Research Excellence Santiago Spain summers 2014 and 2015**
- **James Chair Professor 3 visits (two months each) Canada**
- **CAS Visiting Professor Int'l Scientist Qingdao (China) one month 2014**
- **Several academic trips as Visiting Scientist/Professor in Czech, France, USA, USSR, Sweden, Poland, Germany, Canada, Japan, China, Spain, Taiwan**

Research Projects: Principal Investigator of several major research projects by various organizations: DST, CSIR, UGC, UGC-DAE, BRNS, GUJCOST, Indo-Taiwan (DST).

Books/Monographs Published:

- ✓ **Block Copolymers**, in Encyclopedia of Polymer Science Engineering, Wiley, NY, Vol.2, (1985), pp. 324-434.
- ✓ **Principles of Polymer Science**, Narosa Publishing House, New Delhi, 2001 (Also by CRC Press).

PUBLICATIONS

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Morphological transformations in Triton X-100 micelles modulated by imidazolium and pyridinium type Ionic Liquids: Investigations by scattering techniques (2018) *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 538, pp. 802-807.
2. Lage, E.V., Pillai, S.A., Pal, H., Bahadur, A., Casas, M., Sández-Macho, I., Bahadur, P.
Urea induced changes in self-assembly and aggregate microstructures of amphiphilic star block copolymers with widely different hydrophobicity (2018) *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 537, pp. 259-267.
3. Padsala, S., Dharaiya, N., Ray, D., Aswal, V.K., Sastry, N.V., Bahadur, P.
Self-organization of mixtures of sodium oleate and imidazolium based surface active ionic liquids studied by tensiometry, rheology and neutron scattering (2018) *Journal of Molecular Liquids*, 249, pp. 573-582.
4. Khimani, M., Tseng, H.-W., Aswal, V.K., Chen, L.-J., Bahadur, P.
Salt-assisted microstructure evaluation of hydrophilic block copolymer F98: A thermal and scattering study (2017) *Journal of Molecular Liquids*, 246, pp. 363-371.
5. Patidar, P., Pillai, S.A., Bahadur, P., Bahadur, A.
Tuning the self-assembly of EO-PO block copolymers and quercetin solubilization in the presence of some common pharmaceutical excipients: A comparative study on a linear triblock and a starblock copolymer (2017) *Journal of Molecular Liquids*, 241, pp. 511-519.
6. Padasala, S., Chavda, S., Ray, D., Aswal, V.K., Bahadur, P.
The effect of glycols and their ethers on micellar behavior of cetyltrimethylammonium tosylate (2017) *Journal of Molecular Liquids*, 242, pp. 484-491
7. Thakkar, K., Bharatiya, B., Ray, D., Aswal, V.K., Bahadur, P.
Cationic surfactants modulate aqueous micellization and wetting on PTFE by Triton X-100: Effect of alkyl chainlength, headgroup and counterion (2017) *Journal of Molecular Liquids*, 241, pp. 136-143.
8. Patidar, P., Pillai, S.A., Sheth, U., Bahadur, P., Bahadur, A.
Glucose triggered enhanced solubilisation, release and cytotoxicity of poorly water soluble anti-cancer drugs from T1307 micelles (2017) *Journal of Biotechnology*, 254, pp. 43-50.
9. Bharatiya, B., Bahadur, P.
Shape transition in ABC triblock copolymer micelles complexed with SDS through quaternized polyvinyl pyridine central block (2017) *Colloid and Polymer Science*, 295 (6), pp. 1089-1093
10. Sheth, U., Nagane, R., Bahadur, P., Bahadur, A.
Salt effect on solubilization of hydrophobic drugs in block copolymeric micelles and investigation of their in vitro and in vivo oral efficiency (2017) *Journal of Drug Delivery Science and Technology*, 39, pp. 531-541
11. Raval, A., Pillai, S.A., Bahadur, A., Bahadur, P.
Systematic characterization of Pluronic® micelles and their application for solubilization and in vitro release of some hydrophobic anticancer drugs (2017) *Journal of Molecular Liquids*, 230, pp. 473-481
12. Chavda, S., Danino, D., Aswal, V.K., Singh, K., Marangoni, D.G., Bahadur, P.
Microstructure and transitions in mixed micelles of cetyltrimethylammonium tosylate and bile salts (2017) *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 513, pp. 223-233

13. Raval, A., Bahadur, P., Raval, A.
Effect of nonionic surfactants in release media on accelerated in-vitro release profile of sirolimus eluting stents with biodegradable polymeric coating (2017) *J Pharm Anal*
14. Patel, U., Parekh, P., Sastry, N.V., Aswal, V.K., Bahadur, P.
Surface activity, micellization and solubilization of cationic gemini surfactant-conventional surfactants mixed systems(2017) *Journal of Molecular Liquids*, 225, pp. 888-896
15. Dharaia, N., Patel, U., Ray, D., Aswal, V.K., Sastry, N.V., Bahadur, P.
Different pH triggered aggregate morphologies in sodium oleate-cationic surfactants mixed systems (2017) *New Journal of Chemistry*, 41 (17), pp. 9142-9151.
16. Kanoje, B., Padshala, S., Parikh, J., Sahoo, S.K., Kuperkar, K., Bahadur, P.
Synergism and aggregation behaviour in an aqueous binary mixture of cationic-zwitterionic surfactants: Physico-chemical characterization with molecular simulation approach (2017) *Physical Chemistry Chemical Physics*, 20 (1), pp. 670-681.
17. Bile salt assisted morphological changes of cationic gemini surfactant (12-4-12) micelles, Shailesh Padasala, Vijay I. Patel, Debes Ray, Kulbir Singh, Vinod K. Aswal and P. Bahadur, *RSC Adv.*, 2016, **6**, 96584-96594
18. Aggregation of 1-alkyl-3-methylimidazolium octylsulphate ionic liquids and their interaction with Triton X-100 micelles Khushbu Thakkar, Bhavesh Bharatiya, Vinod K. Aswal and Pratap Bahadur, *RSC Adv.*, 2016, **6**, 80585
19. Microstructural morphologies of CTAB micelles modulated by aromatic acids Shailesh, Padsala, Nilesh Dharaia, Nandhibatla V. Sastry, Vinod K. Aswal and Pratap Bahadur *RSC Adv.*, 2016, **6**, 105035-105045
20. Molecular interactions involving aqueous Triton X-100 micelles and anionic surfactants: investigations on surface activity and morphological transitions, K Thakkar, B Bharatiya, V K Aswal and P Bahadur *Journal of Molecular Liquids* 223 (2016) 611-620.
21. Salt induced micellar transitions in aqueous solutions of star block copolymer Tetronic® 1304: Investigating the role in Solubilizing, Release and cytotoxicity of model drugs, Sadafara A. Pillai, Urjita Sheth, Anita Bahadur, Vinod K. Aswal and Pratap Bahadur, *Journal of Molecular Liquids* 224 (2016) 303–310
22. Microstructure of copolymeric micelles modulated by ionic liquids: investigating the role of anion and cation, Sadafara Pillai, Chin-Fen Lee, Debes Ray, Vinod K. Aswal, Haridas Pal, Li-Jen Chen and Pratap Bahadur, *RSC Adv.*, 2016, **6**, 87299
23. A multitechnique approach on adsorption, self-assembly and quercetin solubilization by Tetronics® micelles in aqueous solutions modulated by glycine, Sadafara A. Pillai, Bhavesh Bharatiya, Matilde Casas, Emilio V. Lage, Isabel Sandez-Macho, Haridas Pal and Pratap Bahadur, *Colloids and Surfaces B: Biointerfaces* 148 (2016) 411–421
24. Aqueous solution behaviour of cationic surfactant modulated by glycol additives: investigating aggregation and microstructure of tetradecyltrimethylammonium bromide micelles in the presence of propylene glycol, its ethers and esters, Sadafara Pillai, Suresh Chavda, Pratap Bahadur, *Journal of Molecular Liquids* 223 (2016) 1291–1296
25. Thermal and scattering studies of Tetronic® 1304 micelles in the presence of industrially important glycols, their oligomers, cellosolves, carbitols, ethers and esters, Sadafara A. Pillai, Chin-Fen Lee, Li-Jen Chen, Prashant Bahadur, Vinod K. Aswal and Pratap Bahadur, *Colloids and Surfaces A: Physicochem. Eng.* 506 (2016) 576–585
26. Surface and Aggregation Behavior of Pentablock Copolymer PNIPAM7-F127-PNIPAM7 in Aqueous Solutions, Paresh Parekh, Sayaka Ohno, Shin-ichi Yusa, Emilio V. Lage, Matilde Casas, Isabel Sandez-Macho, Vinod K. Aswal, and Pratap Bahadur. *J. Phys. Chem. B* 2016, **120**, 7569–7578
27. Critical Behavior and Ensuing Phase Separations in Paraben Solubilized Micellar Solutions of Ionic Surfactants, Urja Patel, Paresh Parekh, Debes Ray, Vinod Kumar Aswal, Pratap Bahadur and Rajib Ganguly. *J Surfact Deterg* (2016) 19:1043–1052
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32. Mixed micellization Study of alkyltrimethylammonium and alkyltriphenylphosphonium bromides in aqueous solution, Shailesh Padsala, Bharat kanoje, Ketan Kuperkar, P. Bahadur, *J Surfact Deterg.* (2016) 19: 389-398
33. Solubilisation study of water-insoluble dye in cationic single/dimeric surfactant micelles: effect of headgroup, non-polar tail, and spacer chain in aqueous and salt solution, Shailesh Padsala, Ketan Kuperkar, P. Bahadur, *Coloration Technology*,2016, 132,1-5
34. Interaction of ionic liquid type cationic surfactants with triton X-100 nonionic micelles, Khushbu Thakkar, Bhavesh Bharatiya, Dinesh O. Shah, Debes Ray, Vinod K. Aswal, Pratap Bahadur, *ColloidsandSurfacesA:Physicochem.Eng.Aspects*484(2015)547–557
35. 1-Hexanol triggered structural characterization of the worm-like micelle to vesicle transitions in cetyltrimethylammonium tosylate solutions Vijay Patel, Debes Ray, Kulbir Singh, Ludmila Abezgauz, Gerrard Marangoni, Vinod K. Aswal and P. Bahadur, *RSC Adv.*, 2015, 5, 87758
36. NaCl-triggered self-assembly of hydrophilic poloxamine block copolymers, Anita Bahadur, Sonia Cabana-Montenegro, Vinod Kumar Aswal, Emilio V. Lage, Isabel Sandez-Macho, Angel Concheiro, Carmen Alvarez-Lorenzo, Pratap Bahadur, *JVolume* 494, Issue 1, 15 October 2015, Pages 453–462.
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38. An efficient cloud point extraction method for the separation of congo red using Triton X-100 in the presence of additives, Nilesh Dharaiya, Arpan Parmar, Pratap Bahdur, *Indian Journal of Chemistry*, Vol. 54A, May, 2015, pp.627-632.
39. Clouding and hydrodynamic behaviour of Triton X-100 in aqueous media in the presence of linear and cyclic glycols, its oligomers and ethers, Urja Patel, Paresh Parekh, Pratap Bahadur, *Indian Journal of Chemistry*, vol.54A, March 2015, pp.345-350.
40. pH controlled size/shape in CTAB micelles with solubilized polar additives: A viscometry, scattering and spectral evaluation, Vijay Patel, Nilesh Dharaiya, Debes Ray, Vinod K. Aswal ,Pratap Bahadur, *Colloids and Surfaces A: Physicochem. Eng. Aspects* 455(2014)67–75
41. pH induced tuning of size, charge and viscoelastic behaviour of aqueous micellar solution of Pluronic P104–anthranilic acid mixtures: a scattering, rheology and NMR study, M. Khimani , G.Verma , S.Kumar , P.A. Hassan, V.K. Aswal, P. Bahadur, *Colloids and Surfaces A: Physico Chem. Eng. Aspects* 470 (2015) 202–210
42. Characterization of Triton X-100 and its oligomer (Tyloxapol) micelles vis-à-vis solubilisation of bisphenol A by spectral and scattering techniques, Nilesh Dharaiya, Vinod Aswal, Pratap Bahadur, *Colloids Surfaces A: Physicochem. Eng. Aspects* 470 (2015) 230–239.
43. Self-assembly of multi-responsive poly(Nisopropylacrylamide)-b-poly(N,N-dimethyl aminopropyl acrylamide) in aqueous media, M. Khimani, S. Yusa, A. Nagae, R. Enomoto, V.K. Aswal, E. Kesselman P. Bahadur, D. Danino, *European Polymer Journal* 69 (2015) 96–109
44. Effect of amphiphilic and non amphiphilic polymers on micellar behaviour of nonionic surfactant, Urja Patel, Nilesh Dharaiya, Jigisha Parikh, Vinod K. Aswal, Pratap Bahadur, *Colloids and Surfaces A: Physicochem. Eng. Aspects* 481 (2015) 100–107
45. Investigations on microstructural changes in pH responsive mixed micelles of Triton X-100 and bile salt, Patel, V., Bharatiya, B., Ray, D., Aswal, V.K., Bahadur, P. (2015) *J Colloid and Interfaces, Science*, 441, pp. 106-112.

46. PH controlled size/shape in CTAB micelles with solubilized polar additives: A viscometry, scattering and spectral evaluation Patel, V., Dharaiya, N., Ray, D., Aswal, V.K., Bahadur, P. (2014) *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 455 (1), pp. 67-75.
47. Triton X-100 micelles modulated by solubilized cinnamic acid analogues: The pH dependant micellar growth Patel, V., Ray, D., Aswal, V.K., Bahadur, P. (2014) *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 450 (1), pp. 106-114.
48. Butanol solubilization in aqueous F127 solution: Investigating the enhanced micellar solvation and consequent improvement in gelation characteristics Parekh, P., Dey, J., Kumar, S., Nath, S., Ganguly, R., Aswal, V.K., Bahadur, P. (2014) *Colloids and Surfaces B: Biointerfaces*, 114, pp. 386-391.
49. Pluronic-cationic surfactant mixed micelles: Solubilization and release of the drug hydrochlorothiazide Parmar, A., Chavda, S., Bahadur, P. (2014) *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 441, pp. 389-397.
50. Interaction, solubilization and location of p-hydroxybenzoic acid and its sodium salt in micelles of moderately hydrophilic PEO-PPO-PEO triblock copolymers Khimani, M., Parekh, P., Aswal, V.K., Bahadur, P. (2014) *European Physical Journal E*, 37 (5),
51. PH-responsive micelles and vesicles formed from a water-soluble schizophrenic diblock copolymer Enomoto, R., Khimani, M., Bahadur, P., Yusa, S.-I. (2014) *Journal of the Taiwan Institute of Chemical Engineers*, 45 (6), pp. 3117-3123.
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54. Light scattering and NMR studies of Triton X-100 micelles in the presence of short chain alcohols and ethoxylates. N. Dharaiya, P. Bahadur, K. Singh, D. G. Marangoni, P. Bahadur *Colloids Surf. A* 436, 252–259, (2013).
55. Dissimilar effects of solubilized p-toluidine on the shape of micelles of differently charged surfactants. K. Singh, N. Dharaiya, D. Gerrard Marangoni, P. Bahadur *Colloids Surf. A*. 436, 521-529, (2013).
56. Solubilization of hydrophobic alcohols in aqueous Pluronic solutions: investigating the role of dehydration of the micellar core in tuning the restructuring and growth of Pluronic micelles. V. Patel, J. Dey, R. Ganguly, S. Kumar, S. Nath, V. K. Aswal and P. Bahadur *Soft Matter*, 9, 7583-7591, (2013).
57. Synthesis of stimuli responsive PEG47–b-PAA126–b-PSt32 triblock copolymer and its self-assembly in aqueous solutions. S. Chavda, S. Yusa, M. Inoue, L. Abezgauz, E. Kesselman, D. Danino, P. Bahadur, *Euro. Poly. J.*, 49(1), 209-216 (2013).
58. PEO–PPO based star-block copolymer T904 as pH responsive nanocarriers for quercetin: Solubilization and release study. A. V. Parmar, A. Bahadur, K. Kuperkar, P. Bahadur *Euro. Poly. J.*, 49(1), 12-21 (2013).
59. Alkanol induced micelles of very hydrophilic EO-PO-EO block copolymer: Characterization by spectral and scattering methods. A. Parmar, B. Bharatiya, K. Patel, V.K. Aswal, P. Bahadur, *J. surf. Deterg.*, 16(1), 105-114 (2013).
60. Solubilization and release of a model drug nimesulide from PEO-PPO-PEO block copolymer core-shell micelles: Effect of size of PEO blocks. A. Parmar, P. Parekh, P. Bahadur, *J. Sol. Chem.* 42(1), 80-101 (2013).
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62. Solubilization of Parabens in Aqueous Pluronic Solutions: Investigating the Micellar Growth and Interaction as a Function of Paraben Composition. M. Khimani, R. Ganguly, V. K. Aswal, S. Nath, and P. Bahadur *J. Phys. Chem. B*, 116 (51), 14943–14950 (2012).
63. Interaction between the ionic liquids 1-alkyl-3-methylimidazolium tetrafluoroborate and Pluronic® P103 in aqueous solution: A DLS, SANS and NMR study. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, A. Parmar, V.K. Aswal, P. Bahadur 97, 137-143 (2012).
64. Phenol induced growth in Triton X-100 micelles: Effect of pH and phenols' hydrophobicity. N. Dharaiya, P. Bahadur, *Colloid Surf A*, 410, 81–90 (2012).

65. Phenol solubilization in aqueous Pluronic® solutions: Investigating the micelle growth and interaction as a function of pluronic® composition. R. Ganguly, K. Kuperkar, P. Parekh, V.K. Aswal, P. Bahadur. *J. Colloid Interface Sci.*, 378(1), 118–124, (2012).
66. Aqueous solution behaviour of cationic surfactant modulated by presence of glycols and their ethers. S. Chavda, K. Singh, D. G. Marangoni, P. Bahadur *Bull. Chem. Soc. Jpn.*, 85, 786–792 (2012).
67. Cationic micelles modulated in the presence of α , ω -alkanediols: A SANS, NMR and conductometric study. S. Chavda, K. Singh, D.G. Marangoni, V. K. Aswal, P. Bahadur, *J. Surfact Deterg*, 15 (3), 317-325 (2012).
68. Room temperature sphere-to-rod micellar growth of Pluronic® P85 micelles by salicylic acid. P. Parekh, R. Ganguly, V. K. Aswal, P. Bahadur. *Soft Matter*, 8(21), 5864-5872 (2012).
69. Microstructural study of CTAB/1-Butanol/Salt/Water Systems: SANS and 2D-Noesy analysis. K. Kuperkar, A. Patriati, E. G. R. Putra, K Singh, D.G. Marangoni, P. Bahadur, *Can. J. Chem.* 90(3): 314-320 (2012).
70. Spectral hydrodynamics studies on p-toluidine induced growth in cationic micelle, N. Dharaiya, S. Chavda, K. Singh, D. G. Marangoni, P. Bahadur, *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 93, 306-312 (2012).
71. Preparation and optimization of media using Pluronic® micelles for solubilization of sirolimus and release from the drug eluting stents. A. Raval. A. Parmar, A. Raval, P. Bahadur, *Colloids and Surfaces B: Biointerfaces*, 93, 180-187 (2012).
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73. Spectral and scattering microstructural investigation in cationic gemini surfactants (12-s-12) induced by p-toluidine. N. Dharaiya, A. Patriati, K. Kuperkar, E. G. R. Putra, P. Bahadur *Colloids Surfa. A*. 396, 1-7 (2012)
74. Solubilization and location of phenol and benzene in a nonlinear amphiphilic EO–PO block copolymer micelles: ^1H NMR and SANS studies. P. Parekh, K. Singh, D. G. Marangoni, V.K. Aswal, P. Bahadur, *Colloids Surfa. A*. 400, 1-9 (2012).
75. Solubilization of aromatic hydrocarbons in EPE Micelles: Location of solubilize and its effect on micelle size from 2D NMR and scattering techniques. P. Parekh, K. Singh, D.G. Marangoni, V.K. Aswal, P. Bahadur, *J Surfact Deterg* 15:1, 23-32 (2012).
76. Effect of hydrophobicity of PEO-PPO-PEO block copolymers on micellization and solubilization of a model drug nimesulide, A. Parmar, U. Yerramilli, P. Bahadur, *J. Surf. Deterg* 15, 367-375 (2012)
77. Effect of a hydrophilic PEO-PPO-PEO copolymer on cetyltrimethylammonium tosylate solutions in water. V. Patel, S. Chavda, V. K. Aswal, P. Bahadur, *J Surfact Deterg* 15, 337-385 (2012)
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79. Synthesis and characterization of pH sensitive core shell corona micelles of poly(styrene-block-2-vinylpyridine-block-ethylene oxide) ABC triblock copolymer in Aqueous Solutions. B. Bharatiya, S. Yusa, V. K. Aswal, L. Abezgauz, D. Danino, P. Bahadur, *Bull. Chem. Soc. Jpn.*, 84 (11), 1227–1233 (2011)
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84. Interaction between nonionic and gemini (Cationic) surfactant: Effect of spacer chain length, S. Chavda, P. Bahadur, V. K. Aswal, *J Surfact Deterg* 14 353-362 (2011).
85. Growth and interaction of the Tetronic 904 micelles in aqueous alkaline solutions. R. Ganguly, Y. Kadam, N. Choudhury, V. K. Aswal, P. Bahadur, *J. Phy. Chem. B*, 115, 3425-3433 (2011).

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88. Micellization and solubilization of a model hydrophobic drug nimesulide in aqueous salt solutions of Tetronic® T904, P Parekh, K Singh, D .G. Marangoni, P Bahadur, *Colloids Surfaces B*, 83, 69–77 (2011).
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