
References

A

Albert, P. (2008): 'Laser Fundamentals'. accessed 1st January 2009, <www.shorelaser.com>.

Alexiades-Armenakas, M., Dover, J. and Arndt, K. (2008): 'The spectrum of laser skin resurfacing: Nonablative, fractional, and ablative laser resurfacing'. *J Am Acad Dermatol.*; **58**(5): 719-739.

Alster, T. (1997): 'Laser treatment of hypertrophic scars, keloids, and striae'. *Dermatol Clin.*; **15**(3): 419-429.

Alster, T. and Bellew, S. (2004): 'Improvement of dermatochalasis and periorbital rhytides with a high energy pulsed CO₂ laser', *Dermatol Surg.*; **30**: 483-487.

Alster, T. and Doshi, S. (2005): 'Laser Skin Resurfacing'. In: Burgess C, (ed.). *Cosmetic Dermatology*, Springer Berlin Heidelberg, pp. 111-126.

Alster, T. and Konda, S. (2007): 'Plasma Skin Resurfacing for Regeneration of Neck, Chest and Hands: Investigation of a Novel Device'. *Dermatol Surg.*; **33**: 1315–1321.

Alster, T. and Lupton, J. (2002): 'Are All Infrared Lasers Equally Effective in Skin Rejuvenation'. *Semin Cutan Med Surg.*; **21**(4): 274-279.

Alster, T. and Lupton, J. (2002): 'Prevention and treatment of side effects and complications of cutaneous laser resurfacing'. *Plast Reconst Surg.*; **109**: 308-316.

Alster, T., Lewis, A. and Rosenbach, A. (1998): 'Laser scar revision: comparison of CO₂ laser vaporization with and without simultaneous pulsed dye laser treatment'. *Dermatol Surg.*; **24**(12): 1299–1302.

Alster, T., Tanzi, El. and Lazarus, M. (2007): 'The Use of Fractional Laser Photothermolysis for the Treatment of Atrophic Scars'. *Dermatol Surg.*; **33**: 295-299.

Amin, SP., Phelps, RG. and Goldberg, DJ. (2006): 'Mesotherapy for facial skin rejuvenation: a clinical, histologic, and electron microscopic evaluation'. *Dermatol Surg*; **32**(12): 1467-72.

Amir, R. (2009): 'Laser Skin Resurfacing with Fractionated CO₂ (Total FX)', accessed at 21 April 2009, <www.ezinearticles.com>.

Anbar, T., Westerhof, W., Abdel-Rahman, A., Ewis, A. and El-Khayyat, M. (2008): 'Effect of one session of ER:YAG laser ablation plus topical 5Fluorouracil on the outcome of short-term NB-UVB phototherapy in the treatment of non-segmental vitiligo: a left–right comparative study'. *Photodermatol Photoimmunol Photomed*; **24**: 322-329.

Ang, P. and Barlow, RJ. (2002): 'Nonablative laser resurfacing: a systematic review of the literature'. *Clin Exp Dermatol.*, **27**: 630-635.

Anon (2003): 'Protection Against Photoaging'. *Am Acad Dermatol*; accessed at 13 February 2010, <www.skincarephysicians.com>.

Anon (2004): "Laser in Dermatology", Advanced Materials, 3rd semester, Institut für Laser technologien in der Medizin und Meßtechnik.

Anon (2005a): 'Botulinum Toxin'. *Am Acad Dermatol*; accessed at 13 Mars 2010, <www.aad.org>.

Anon (2005b): 'Dermabrasion'. *Am Acad Dermatol*; accessed at 13 Mars 2010, <www.aad.org>.

Anon (2006a): 'Soft Tissue Fillers'. *Am Acad Dermatol*; accessed at 13 Mars 2010, <www.aad.org>.

Anon (2006b): 'Mesolift / Skin Rejuvenation', accessed at 30 Mars 2010, <www.mesotherapy.com/skin-rejuvenation/facial_sp.shtml>.

Anon (2007): 'The basics of Laser Physics: An overview'. *Laser-based research and development at the CSIR*, accessed 20 December 2009, <www.csir.co.za>.

Anon (2008a): 'Aging skin', accessed 2nd March 2010 New Zealand Dermatological Society Inc., <www.dermnetnz.org>.

Anon (2008b): 'New MicroSpot Fractional Laser Improves on Traditional CO2 Lasers For Skin Resurfacing and Rejuvenation'. *Dermatology Nursing*; **20**(2): 157.

Anon (2008c): 'Contraindications - When should a low level laser not be used', accessed 21 March 2009, <www.IntegratedLaserTherapies.com>.

Anon (2009a): 'Fractional Laser Skin Resurfacing Background', accessed at 20 April 2009, <www.consultingroom.com>.

Anon (2009b): 'MESOTHERAPY', accessed at 18 Mars 2010, <www.age-less.co.za/mesotherapy.html>.

Anon (2009c): 'Active FX™', accessed at 10 May 2009, <www.ljmedspa.com>.

Anon (2009d): 'Fractional CO2 Laser Resurfacing for Acne Scarring with the MiXto Laser', Natural Image Cosmetic Surgery, accessed at 3 June 2009, <www.drsikorski.com/>.

Anon (2009e): 'Chemical Peeling'. *Am Acad Dermatol*; accessed at 13 Mars 2010, <www.aad.org>.

Anon (2009f): 'Causes of Aging Skin'. *Am Acad Dermatol*; accessed at 13 February 2010, <www.skincarephysicians.com>.

Anon (2010a): 'Meso Roller, Derma Roller, Microneedle Therapy System', accessed at 30 Mars 2010, <www.himfr.com>.

Anon (2010b): Mesotherapy Treatments, accessed 20 Mars 2010, <www.facethefuture.co.uk/>.

Anon (2010c): Rhytec Portrait Plasma Skin Regeneration accessed at 15 February 2010, <www.thevictorianscosmeticinstitute.com.au>.

Anon (2010d): 'Laser Diodes'. Accessed 3 March 2010, www.learnabout-electronics.org

B

Bader, R. (2007): 'Cutaneous laser resurfacing: Carbon dioxide', <www.e.medicine.com>, updated: Nov 13, 2007

Baez, F. and Reilly, L. (2007): 'The use of light-emitting diode therapy in the treatment of photoaged skin'. *J Cosmet Dermatol.*; **6**: 189-194.

Batra, RS. (2004): 'Ablative Laser Resurfacing - Postoperative Care'. *Skin Therapy Lett.*; **9**(7): 6-8.

Baumann, L. (2008): 'Stretch marks (Cosmeceutical Critique)', accessed at 22 April 2009, < www.entrepreneur.com>.

Bhatia, A., Dover, J., Arndt, K., Stewart, B. and Alam, M. (2006): 'Patient Satisfaction and Reported Long-Term Therapeutic Efficacy Associated with 1,320 nm Nd:YAG Laser Treatment of Acne Scarring and Photoaging'. *Dermatol Surg.*; **32**: 346-352.

Bhatt, N. and Alster, T. (2008): 'Laser Surgery in Dark Skin'. *Dermatol Surg.*; **34**: 184-195.

Blankenship, C. and Alster, T. (2008): 'Fractional Photothermolysis of Residual Hemangioma'. *Dermatol Surg.*; **34**: 1112–1114.

Bogle, M. (2006): 'Plasma Skin Regeneration Technology: Postprocedure'. *Care Skin Therapy Letter*, **11**(7): 7-9.

Bogle, M., Arndt, K. and Dover, J. (2007): 'Evaluation of Plasma Skin Regeneration Technology in Low-Energy Full-Facial Rejuvenation '. *Arch Dermatol.*; **143**(2): 168-174.

Bornstein, E. (2004): 'Proper use of Er:YAG lasers and contact sapphire tips when cutting teeth and bone: scientific principles and clinical application'. *Dent. Today*; **23**(84): 86-89.

Boyce, S. and Alster, T. (2002): 'CO₂ laser treatment of epidermal nevi: long-term success'. *Dermatol Surg.*; **28**: 611-614.

Bravo-Abad, J. and Soljagic, M. (2008): 'A Unified Picture of Laser Physics'. Accessed 14 December 2009, <www.sciencemag.org>.

C

Campolmi, P., Brazzini, B., Urso, C., Ghersetich, I., Mavilia, L., Hercogova, J. et al. (2002): 'Superpulsed CO₂ laser reatment of basal cell carcinoma with intraoperative histopathologic and cytologic examination'. *Dermatol Surg.*; **28**: 909-912.

Cassuto, D., Sadick, N., Scrimali, L. and Sirago, P. (2008): 'An Innovative Device for Fractional CO₂ Laser Resurfacing: A Preliminary Clinical Study'. *Am J Cosmet Surg.*; **25**(2): 97-101.

Castano, AP., Mroz, P. and Hamblin, MR. (2006): 'Photodynamic therapy and anti-tumour immunity'. *Nature Reviews Cancer*, **6**(7): 535-545.

Cesle, M. (2004): *Fundamentals of Light Sources and Lasers*. Canada: John Wiley & Sons.

Chan, H., Leung, R., Ying, SY., Lai, CF., Kono, T., Chua, JK. et al. (2000): 'A retrospective analysis of complications in the treatment of nevus of Ota with the Q-switched Alexandrite and Q-switched Nd:YAG lasers'. *Dermatol Surg.*; **26**(11): 1000-1006.

Cho, S., Lee, J., Choi, M., Lee, K. and Oh, S. (2009): 'Efficacy of the Fractional Photothermolysis System with Dynamic Operating Mode on Acne Scars and Enlarged Facial Pores'. *Dermatol Surg.*; **35**: 108-114.

Chong, LY. (2001): 'Laser therapy in dermatology: what have we learnt in the last decade?' *The Hong Kong Practitioner*, **23**: 323-330.

Chrastil, B., Glaich, A., Goldberg, L. and Friedman, P. (2008): 'Second-Generation 1,550-nm Fractional Photothermolysis for the Treatment of Acne Scars'. *Dermatol Surg.*; **34**: 1327-1332.

Clark, E. and Scerri, L. (2008): 'Superficial and medium-depth chemical peels'. *Clinics in Dermatology*; **26**: 209-218.

Consensus (2009): 'HAIR LOSS: Laser biostimulation', accessed 18 October 2009, <<http://www.consensus.med.pl>>.

Cox, B. (2007): 'Introduction to Laser-Tissue Interactions'. Accessed at 25 December 2009, <www.medphys.ucl.ac.uk>, pp. 1-61.

Cremers, DA. and Radziemski, LJ. (2006): *Handbook of Laser-Induced Breakdown Spectroscopy*, New York: John Wiley & Sons.

D

Dolmans, D., Fukumara, D. and Jain, RK. (2003): 'Photodynamic therapy for cancer'. *Nature Publishing Group*; **3**: 380-387.

Donofrio, L. and Weinkle, S. (2006): 'The third dimension in facial rejuvenation: a review'. *J Cosmet Dermatol.*; **5**: 277-283.

Dover, J. (2008): 'New Laser Treatments Offer Gentle and Effective Skin Resurfacing'. *Dermatology Nursing*; **20**(3): 236.

Dover, J. and Hruza, G. (2000): 'Lasers in skin resurfacing'. *Australasian Journal of Dermalology*; **41**: 72-85.

E

Esparza, J. (2006): 'Nonablative radiofrequency for facial and neck rejuvenation. A faster, safer, and less painful procedure based on concentrating the heat in key areas: The ThermoLift concept'. *J Cosmet Dermatol.*; **5**: 68-75.

Ewing, JJ. (2000): 'Excimer laser technology development'. *IEEE J. Sel. Top. Quantum Electronics*; **6**(6): 1061-1071.

F

Fanous, N. (2002): 'A New Patient Classification for Laser Resurfacing and Peels: Predicting Responses, Risks, and Results'. *Aesthetic Plastic Surgery*; **26**(2): 99-104.

Felipe, I., Ruiz del Cueto, S., Pérez, E. and Redondo, P. (2007): 'Adverse reactions after nonablative radiofrequency: follow-up of 290 patients'. *J Cosmet Dermatol.*; **6**: 163-166.

Foster, K., Moy, R. and Fincher, E. (2008): 'Advances in plasma skin regeneration'. *J Cosmet Dermatol.*; **7**: 169-179.

Friedman, D. and Gilead, L. (2007): 'The Use of Hybrid Radiofrequency Device for the Treatment of Rhytides and Lax Skin'. *Dermatol Surg.*; **33**: 543-551.

Fulchiero, G., Parham-vetter, P. and Obagi, S. (2004): 'Subcision and 1320-nm Nd:YAG Nonablative Laser Resurfacing for the Treatment of Acne Scars: A Simultaneous Split-Face Single Patient Trial'. *Dermatol Surg.*; **30**: 1356-1360.

Fulton, J. and Porumb, S. (2004): 'Chemical Peels Their Place Within the Range of Resurfacing Techniques'. *Am J Clin Dermatol*; **5**(3): 179-187.

Fulton, J., Rahimi, A., Helton, P., Dahlberg, K. and Kelly, A. (1999): 'Disappointing results following resurfacing of facial skin with CO₂ lasers for prophylaxis of keratoses and cancers'. *Dermatol Surg.*; **25**: 729-732.

G

Galeckas, K., Ross, E. and Uebelhoer, N. (2008): 'A Pulsed Dye Laser with a 10-mm Beam Diameter and a Pigmented Lesion Window for Purpura-Free Photorejuvenation'. *Dermatol Surg.*; **34**: 308-313.

Geronemus, R. (2006): 'Fractional Photothermolysis: Current and Future Applications'. *Lasers in Surgery and Medicine*, **38**: 169-176.

Giacomoni, PU. (2008): 'Advancement in skin aging: the future cosmeceuticals'. *Clin Dermatol*; **26**(4): 364-6.

Glaich, A., Rahman, Z., Goldberg, L. and Friedman, P. (2007): 'Fractional Resurfacing for the Treatment of Hypopigmented Scars: A Pilot Study'. *Dermatol Surg.*; **33**: 289-294.

Gold, M. (2003): 'Dermabrasion in Dermatology'. *Am J Clin Dermatol*; **4**(7): 467-471.

Goldberg, D. (2000): 'Nonablative Resurfacing', *Clinics in Plastic Surgery*; **27**(2): 287-293.

Goldberg, D. (2003): 'Lasers for Facial Rejuvenation'. *Am J Clin Dermatol*; **4**(4): 225-234.

Goldman, MP. and Fitzpatrick, RE. (1999): 'Skin Resurfacing with Carbon Dioxide and Erbium Lasers'. In: *Cutaneous Laser Surgery*. 2nd ed. Laura De Young, Mosby, Inc; Boston, Toronto, London.

Goodman, G. (2000): 'Management of post-acne scarring: what are the options for treatment?'. *Am J Clin Dermatol.*; **1**: 3-17.

Graber, E. (2008): 'ASDS 2008: Laser Technologies', accessed at 22 April 2009, <www.emedicine.medscape.com>.

Graber, E., Tanzi, E. and Alster, T. (2008): 'Side Effects and Complications of Fractional Laser Photothermolysis: Experience with 961 Treatments'. *Dermatol Surg.*; **34**: 301-307.

Griot, M. (2005): 'Basic Laser Principles'. In: Introduction to Laser Technology. Accessed June 2009, <www.cvimellesgriot.com>, pp. 2-5.

Grossweiner, LI., Jones, LR., Grossweiner, JB. and Rogers, BH. (2005): 'Quantum Description of Light Interactions with Matter'. *Applied Magnetic Resonance*; **30**(1): 93-142.

Guo, T., Nikolaev, P., Rinzler, D., Tomanek, D., Colbert, D. and Smalley, R. (1995): 'Self-Assembly of Tubular Fullerenes'. *J. Phys. Chem.*; **99**: 10694-10697.

H

Haina, D., Landthaler, M., Braun-Falco, O. and Waidelich, W. (1987): 'Comparison of the maximum coagulation depth in human skin for different types of medical lasers'. *Lasers Surg Med.*; **7**: 355-362.

Hantash, B. and Mahmood, M. (2007): 'Fractional Photothermolysis: A Novel Aesthetic Laser Surgery Modality'. *Dermatol Surg.*; **33**: 525-534.

Hantash, B., Stewart, D., Cooper, Z., Rehmus, W., Koch, J. and Swetter, S. (2006): 'Facial resurfacing for nonmelanoma skin cancer prophylaxis'. *Arch Dermatol.*; **142**: 976-978.

Hassan, N. and El-tabak, H. (2009): 'Nonablative Fractional Laser Resurfacing of Nonfacial Photodamage: Clinical and Histochemical Evaluation'. *J Egypt Women Dermatol Soc.*; **6**(2): 56-65.

Hassaun, A. (2009): 'LASER THEORY: Ten-year-old embarrassment leads to unified laser theory'. *Laser Focus World*; **45**(3).

Hecht, J. (2005): *Beam: The Race to Make the Laser*. USA: Oxford University Press.

Heinrich, J. (2008): 'Split-face comparison of fractional ablative CO₂ and fractional nonablative laser devices for skin rejuvenation', Accessed at 15 April 2009, <www.beneficium.cz>.

Heller, A. (2005): 'Orchestrating the world's most powerful laser'. *Lawrence Livermore National Laboratory*, accessed at 14 February 2010, <www.llnl.gov>, pp. 4-12.

Hirlimann, C. (2005): 'Femtosecond Laser Pulses'. In. *Laser Basics*, 2nd ed. Springer New York, pp.1-23.

I

Iwasaki, J., Marra, D., Fincher, M. and Moy, R. (2008): 'Treatment of Hidradenitis Suppurativa with a Nonablative Radiofrequency Device'. *Dermatol Surg*; **34**: 114-117.

J

Jacobson, D., Bass, L., VanderKam, V. and Achauer, B. (2000): 'Carbon dioxide and ER: YAG laser resurfacing results'. *Clin Plast Surg*; **27**: 241-250.

Jeong, J., Park, J. and Kye, Y. (2003): 'Resurfacing of Pitted Facial Acne Scars Using Er:YAG Laser with Ablation and Coagulation Mode'. *Aesth. Plast. Surg*; **27**: 130-134.

Jiang, SC. and Zhang, X. (2005): 'Effects of dynamic changes of tissue properties during laser-induced interstitial thermotherapy (LITT)'. *Lasers in Medical Science*; **19**(4): 197-202.

Jih, M., Goldberg, L. and Kimyai-asadi, A. (2008): 'Fractional Photothermolysis for Photoaging of Hands'. *Dermatol Surg*; **34**: 73-78.

K

Kaminer, MS. and Hruza, GJ. (2002): 'Botulinum A Exotoxin Injections for Photoaging and Hyperhidrosis'. In: Kaminer MS, Dover JS, and Arndt KA, (eds.). *Atlas of Cosmetic Surgery, USA*, W.B. Saunders Company, pp. 295.

Kappes, U. (2004): 'Skin ageing and wrinkles: clinical and photographic scoring'. *J Cosmet Dermatol.*; **3**: 23-25.

Kaschke, M. (2008): 'Lecture 6: Lasers in Medical Technology II', *Optical Systems - Applications in Medical Technologies/LifeSciences*, KSOP University of Karlsruhe (TH), < www.lti.uni-karlsruhe.de>, accessed at 22 April 2009, pp. 1-30.

Katsambas, A. and Stratigos, A. (2001): 'Depigmenting and bleaching agents: coping with hyperpigmentation'. *Clin Dermatol.*; **19**: 483-488.

Katz, B. (2007): 'Treatment of Wrinkles and Skin Rejuvenation with Combined Apex Pulse Technology', accessed at 22 April 2009, <www.cynosure.com>.

Keller, G., Lacombe, V., Lee, P. and Watson, J. (2001): 'Laser resurfacing: An overview In: *Lasers in Aesthetic Surgery*'. New York, Thieme, pp. 41-66.

Keller, K., Junior, W., Valente, N. and Rodrigues, C. (2007): 'Nonablative 1,064-nm Nd:YAG Laser for Treating Atrophic Facial Acne Scars: Histologic and Clinical Analysis'. *Dermatol Surg.*; **33**: 1470-1476.

Kilmer, S., Semchyshyn, N., Shah, G. and Fitzpatrick, R. (2007): 'A pilot study on the use of a plasma skin regeneration device (Portrait® PSR3) in full facial rejuvenation procedures'. *Lasers Med Sci.*; **22**: 101-109.

Kimball, N. (2007): 'Vibraderm Skin Restoration System'. *Mitchell Diagnostic Laser and Skin Care*, accessed at 14 February 2010, <www.mitchelllaser.com>.

Kincade, K. and Anderson, S. (2005): 'Laser Marketplace 2005: Consumer applications boost laser sales 10%'. *Laser Focus World*; **41**(1).

Knott, A., Koop, U., Mielke, H., Reuschlein, K., Peters, N., Muhr, GM. et al. (2007): 'A novel treatment option for photoaged skin'. *J Cosmet Dermatol.*; **7**: 15-22.

Ko, Y., Ahn, H., Kim, S., and Kye, Y. (2007): 'Analysis of Erythema after Er:YAG Laser Skin Resurfacing'. *Dermatol Surg.*; **33**: 1322-1327.

Koechner, W. K. (2006): *Solid State Laser Engineering*. Spriger-Verlag.

Koupelis, T. and Kuhn, F. (2007): 'Light and Electromagnetic Spectrum'. In: *Quest of the Universe*, 4th ed. Jones & Bartlett Publishers, pp. 98-129.

Kown, O. (2008): 'Mesotherapy for Facial Rejuvenation'. In. Shiffman M, Mirrafati S, Lam S, Cueteaux C, (eds.). *Simplified Facial Rejuvenation*, Springer Berlin Heidelberg, pp. 195-200.

L

Lam, M. and Sulindro, M. (2002): 'Aging Skin'. *Academy of Anti-Aging Research*; MMIII (1): 1-8.

Lapidoth, M., Odo, M. and Odo, L. (2008): 'Novel Use of Erbium:YAG (2,940-nm) Laser for Fractional Ablative Photothermolysis in the Treatment of Photodamaged Facial Skin: A Pilot Study'. *Dermatol Surg.*; **34**: 1048-1053.

Lee, H., Yoon, J. and Lee, S. (2009): 'Fractional Laser Photothermolysis for Treatment of Facial Wrinkles in Asians'. *Korean Journal of Ophthalmology*; **23**: 235-239.

Lee, S. and Zins, J. (2008): 'General Principles and Physics Plastic Surgery'. *Physician in Plastic, Reconstructive, and Hand Surgery, Lasers, PLLC*, <medicine.medscape.com>, accessed at 21 January 2010.

Liew, S. (2002): 'Laser hair removal: guidelines for management'. *Am J Clin Dermatol*; **3**(2): 107-115.

Lipper, G. and Perez, M. (2006): 'Nonablative Acne Scar Reduction after a Series of Treatments with a Short-Pulsed 1,064-nm Neodymium:YAG Laser'. *Dermatol Surg.*; **32**: 998-1006.

Lowe, N., Lask, G., Griffin, ME., Maxwell, A., Lowe, P. and Quilada, F. (1995): 'Skin resurfacing with the ultrapulse carbon dioxide laser: Observations on 100 patients'. *Dermatol Surg.*; **21**: 1025-1029.

Lukac, M., Sult, T. and Sult, R. (2007): 'New options and treatment strategies with VSP Er:YAG aesthetics lasers'. *Journal of Cosmetic and Laser Therapy*; **9**(4): 1-6.

Lupton, J., Williams, C. and Alster, T. (2002): 'Nonablative Laser Skin Resurfacing using a 1540 nm Erbium Glass Laser: A Clinical and Histologic Analysis'. *Dermatol Surg.*; **28**: 833-835.

M

Malek, SG. (2001): 'Laser Tissue Interactions: What does really happen when the Laser light hit the targeted ophthalmic tissues?'. *Medicals International SARL*; **3**: 1-5.

Mani N. (2008): 'Skin News & Reviews'. accessed at 22 February 2010, <www.dermnews.com/mani1108-web.htm>.

Martins, A., Trindade, F. and Leit, L. (2008): 'Facial scars after a road accident – combined treatment with pulsed dye laser and Q-switched Nd:YAG laser'. *J Cosmet Dermatol.*; **7**: 227-229.

McDaniel, D., Lord, J., Ask, K. and Newman, J. (1999): 'Combined CO₂/erbium: YAG laser resurfacing of perioral rhytides and side-by-side comparison with carbon dioxide laser alone', *Dermatol Surg.*; **25**: 285-293.

McKenzie, AL. (1990): 'Review article: Physics of thermal processes in laser-tissue interaction'. *Physics in Medicine and Biology*; **35**(9): 1175-1209.

Meduri, N. (2007): 'Facial resurfacing: An overview'. *Operative Techniques in Otolaryngology*; **18**: 172-180.

N

Narurkar, V. (2007): 'Nonablative fractional resurfacing in the male patient'. *Dermatologic Therapy*; **20**: 430-435.

Newman, J. (2009): 'Laser Theory'. Accessed 3 March 2010, <www1.union.edu>

Ngan, V. (2008): 'Plasma skin regeneration (Portrait®)', accessed at 20 February 2010, <www.dermnetnz.org>.

Niemz, MH. (2007a): 'Introduction'. In: *Laser-tissue Interactions Fundamentals and Applications*, 3rd ed. Springer, pp. 1-8.

Niemz, MH. (2007b): 'Interaction Mechanisms'. In: *Laser-tissue Interactions Fundamentals and Applications*, 3rd ed. Springer, pp. 45-150.

Nikolaou, V., Stratigos, A. and Dover, J. (2005): 'Nonablative skin rejuvenation'. *J Cosmet Dermatol.*; **4**: 301-307.

Nikolaou, V., Stratigos, J. and Katsambas, A. (2006): 'Established treatments of skin hypermelanoses'. *J Cosmet Dermatol.*; **5**: 303-308.

Nouri K., Rivas M., Bouzari N. and Faghieh S. (2006): 'Nonablative lasers'. *J Cosmet Dermatol.*; **5**: 107-114.

Nouri K., Vidulich K. and Rivas M. (2005): 'Lasers for scars: a review'. *J Cosmet Dermatol.*; **5**: 14-22.

O

Oakley, A. (2008): 'Facial lines and wrinkles', Accessed 2nd March 2010 New Zealand Dermatological Society Inc., <www.dermnetnz.org>.

Obagi, S. and Patel, M. (2007): 'Overview of Skin Resurfacing Modalities'. In: Guthoff R, Katowitz, J, (eds.). *Oculoplastics and Orbit*, 2nd ed. Springer Berlin Heidelberg, pp. 259-275.

Obagi, Z. (2000): 'Skin classification'. In: *Obagi skin health restoration and rejuvenation*. Springer, New York, pp. 65-85.

P

Paltauf, G. and Dyer, PE. (2003): 'Photomechanical Processes and Effects in Ablation'. *Chemical Reviews*; **103**: 487-518.

Papadavid, E. and Katsambas, A. (2003): 'Lasers for facial rejuvenation: a review'. *International Journal of Dermatology*; **42**: 480-487.

Patil, U. and Dharni, L. (2008): 'Overview of lasers'. *Indian J Plast Surg Supplement*; **41**: 101-113.

Perez, M. and Bank, D. (1998): 'Facial Skin Resurfacing with the Erbium:Yag laser: new findings'. *Cosmetic Dermatology*; **1**: 27-37.

Picardi, A., Abeni, D., Melchi, CF., Puddu, P. and Pasquini P. (2000): 'Psychiatric morbidity in dermatological outpatients: an issue to be recognized'. *Br J Dermatol*; **143**(5): 983-991.

Poet, A. (2008): 'Laser Fundamentals'. Shore Laser, accessed 20 January 2010, < www.shorelaser.com >.

Pozner, J. and Goldberg, D. (2002): 'Nonablative Laser Resurfacing: State of the Art 2002'. *Aesthetic surgery journal*; 427-437.

R

Ramazza, PL., Ducci, S., Zavatta, A., Bellini, M. and Arecchi, FT. (2002): 'Second-harmonic generation from a picosecond Ti:Sa laser in LBO: conversion efficiency and spatial properties'. In. *Applied Physics B: Lasers and Optics*, Springer Berlin/Heidelberg, **75**(1): 53-58.

Ramos-e-Silva, M. and Carneiro, S. (2008): 'Elderly skin and its rejuvenation: products and procedures for the aging skin'. *J Cosmet Dermatol.*; **6**: 40-50.

Riggs, K., Keller, M. and Humphreys, T. (2007): 'Ablative laser resurfacing: high-energy pulsed carbon dioxide and erbium:yttrium-aluminum-garnet'. *Clinics in Dermatology*; **45**: 462-473.

Rigopoulos, D., Gregoriou, S. and Katsambas, A. (2007): 'Hyperpigmentation and melasma'. *J Cosmet Dermatol.*; **6**: 195-202.

Rodriguez, R., López, L., Candelas, D. and Zelickson, B. (2007): 'Enhanced efficacy of photodynamic therapy after fractional resurfacing: fractional photodynamic rejuvenation'. *J Drugs Dermatology*; **6**(8): 818-820.

Rokhsar, C. and Ciocon, D. (2009): 'Fractional Photothermolysis for the Treatment of Postinflammatory Hyperpigmentation after Carbon Dioxide

Laser Resurfacing'. *Dermatol Surg.*; **35**: 535-537.

Rolewski, S. (2003): 'Clinical Review: Topical Retinoids: Clinical Uses'. *Dermatology Nursing*; **15**(5): 1-6.

Ross, E., Grossman, M., Duke, D. and Grevelink, JM. (1997): 'Long-term results after CO2 laser skin resurfacing: a comparison of scanned and pulsed systems'. *J Am Acad Dermatol*; **37**: 709-718.

Rüdiger, P. (2008): *Encyclopedia of Laser Physics and Technology*. Berlin: Wiley-VCH.

S

Scheinfeld, N. and Goldberg, D. (2008): 'Nonablative Resurfacing', accessed at 12 Mars 2009, <www.emedicine.medscape.com>.

Setyadi, H., Jacobs, A. and Markus, R. (2008): 'Infectious Complications After Nonablative Fractional Resurfacing Treatment'. *Dermatol Surg.*; **34**: 1595-1598.

Shen, N. (2003): *Photodisruption in biological tissues using femtosecond laser pulses*, M. D. Thesis, Harvard University.

Steele, R. (2005): 'Diode-laser market grows at a slower rate'. *Laser Focus World*; **41**(2).

Stern, J. and Lucente, F. (1989): 'Carbon dioxide laser excision of earlobe keloids: a prospective study and critical analysis of existing data'. *Arch Otolaryngol Head Neck Surg.*; **115**: 1107-1111.

Stewen, C., Larionov, M., and Giesen, A., Contag, K. (2000): 'Yb:YAG thin disk laser with 1 kW output power'. In. Injeyan H, Keller U, Marshall C, (eds.). *Advanced Solid State Lasers*, Optical Society of America, Washington, DC, pp. 35-41.

Sukal, S., Chapas, A., Bernstein, L., Hale, E., Kim, K. and Geronemus, R. (2008): 'Eyelid Tightening and Improved Eyelid Aperture through

Nonablative Fractional Resurfacing'. *Dermatol Surg.*; **34**: 1454-1458.

Sutter, T., Fellers, J. and Davidson, W. (2002): 'Laser Energy Levels'. The Florida State University, accessed 12 January 2010, <www.micro.magnet.fsu.edu>.

T

Tang, A. and Udey, M. (1992): 'Doses of Ultraviolet Radiation that Modulate Accessory Cell Activity and ICAM-1 Expression Are Ultimately Cytotoxic for Murine Epidermal Langerhans Cells'. *The Society for Investigative Dermatology*; **99**(5): 71-73.

Tannous, Z. and Astner, S. (2005): 'Utilizing fractional resurfacing in the treatment of therapy-resistant melasma'. *Journal of Cosmetic and Laser Therapy*; **7**: 39-43.

Tanzi, El., and Alster, T. (2003): 'Single-Pass Carbon Dioxide Versus Multiple-Pass Er:YAG Laser Skin Resurfacing: A Comparison of Postoperative Wound Healing and Side-Effect Rates'. *Dermatol Surg.*; **29**: 80-84.

Tanzi, El., Lupton, J. and Alster T. (2003): 'Lasers in dermatology: Four decades of progress'. *J am Acad Dermatol*; **49**(1): 1-34.

Tay, Y. and Kwok, C. (2008): 'Minimally Ablative Erbium:YAG Laser Resurfacing of Facial Atrophic Acne Scars in Asian Skin: A Pilot Study'. *Dermatol Surg.*; **34**: 681-685.

Todorov, G. (2010a): 'Reducing skin wrinkles with tretinoin (Retin A, Renova)', accessed at 14 February 2010, <SmartSkinCare.com>.

Todorov, G. (2010b): 'Plasma skin resurfacing - Obliterating wrinkles without open burns', accessed at 12 February 2010, <www.smartskinicare.com/>.

Tony, R. (2002): *Lessons in Electric Circuits Volume III – Semiconductors*. 5th ed, Bellingham, USA: Ibiblio.

Touma, D., Krauss, M., Feingold, D. and Kaminer, M. (1998): 'Benign familial pemphigus (Hailey-Hailey disease): treatment with the pulsed

carbon dioxide laser'. *Dermatol Surg.*; **24**: 1411-1414.

Trelles, M. (2004): 'Laser resurfacing today and the 'cook book' approach: a recipe for disaster?'. *J Cosmet Dermatol.*; **3**: 237-241.

Trelles, M., Mordon, S. and Calderhead, R. (2006): 'Facial rejuvenation and light: our personal experience'. *Lasers Med Sci*; **22**: 93-99.

Trelles, M., Mordon, S. and Calderhead, R. (2007): 'Facial rejuvenation and light: our personal experience'. *Lasers Med Sci*; **22**: 93-99.

Trelles, M., Mordon, S. and Velez, M. (2009): 'Results of fractional ablative facial skin resurfacing with the erbium:yttrium-aluminium-garnet laser 1 week and 2 months after one single treatment in 30 patients'. *Lasers Med Sci*; **24**: 186-194.

V

Vanessa, N. (2007): 'Lasers in Dermatology'. Accessed 2nd March 2010 New Zealand Dermatological Society Inc., <dermnetnz.org>.

Vasily, D. and Cerino, M. (2008): 'Fractional, Non-Ablative Laser Therapy for the Treatment of Surgical and Trauma Scars', accessed at 2 Mai 2009, < www.palomarmedical.com>.

Vogel, A., Busch, S., and Parlitz, U. (1996): 'Minimization of cavitation effects in pulsed laser ablation illustrated on laser angioplasty'. *Journal of the Acoustical Society of America*; **62**: 173-182.

W

Walgrave, S., Zelickson, B., Childs, J., Altshuler, G., Erofeev, A., Yaroslavsky, I. et al. (2008): 'Pilot Investigation of the Correlation between Histological and Clinical Effects of Infrared Fractional Resurfacing Lasers'. *Dermatol Surg.*; **34**: 1443-1453.

Wallia, S. and Alster, T. (1999): 'Prolonged clinical and histologic effects from CO2 laser resurfacing of atrophic acne scars'. *Dermatol Surg.*; 25-29.

Wanitphakdeedecha, R., Manuskiatti, M., Siriphukpong, S. and Chen, M. (2009): 'Treatment of Melasma Using Variable Square Pulse Er: YAG Laser Resurfacing'. *Dermatol Surg.*; **35**: 475-482.

Wanner, M., Tanzi, El. and Alster, T. (2007): 'Fractional Photothermolysis: Treatment of Facial and Nonfacial Cutaneous Photodamage with a 1,550-nm Erbium-Doped Fiber Laser'. *Dermatol Surg.*; **33**: 23-28.

Wasserman, S. (2007): 'Mesotherapy for Cellulite Reduction and Skin Rejuvenation', accessed at 11 Mars 2010, <[ww.mesobeauty.com](http://www.mesobeauty.com)>.

Watanabe, S. (2008): 'Basics of laser application to dermatology'. *Arch Dermatol Res*; **300**(1): 21-30.

Watson, R. and Griffiths, C. (2005): 'Pathogenic aspects of cutaneous photoaging'. *J Cosmet Dermatol.*; **4**: 230-236.

Wheeland, R. (1995): 'Clinical uses of lasers in dermatology'. *Lasers Surg Med.*; **16**(1): 2-23.

Whitaker, E. and Yarborough, J. (2008): 'Microdermabrasion', accessed at 12 Mars 2009, <emedicine.medscape.com>.

Z

Zimmerman, A. (2010): 'Energy'. Accessed 21 Mars 2010, <<http://physics.about.com>>.