

Angela Violi's Journal Publications Previous to 2005

20. A. Violi, "Modeling of Soot Particle Inception in Aromatic and Aliphatic Premixed Flames" *Combustion and Flame* 139: 279-287 (2004).
19. A. Violi, A.F. Sarofim, G.A. Voth "Kinetic Monte Carlo-molecular dynamics approach to model soot inception" *Combustion Science and Technology* 176(5-6), 991-1005 (2004).
18. A. Violi, T.N. Truong, A.F. Sarofim "Kinetics of Hydrogen Abstraction Reactions from Polycyclic Aromatic Hydrocarbons by H Atoms" *J. Phys. Chem. A* 108(22): 4846-4852 (2004).
17. A. Violi, A. D'Anna, A. D'Alessio, "A kinetic model of particulate carbon formation in rich premixed flames of ethylene and benzene", *Clean Air-International Journal on Energy for a Clean Environment* 5(3), 1-18 (2004).
16. J.A. Cooke, M. Bellucci, M.D. Smooke, A. Gomez, A. Violi, T. Faravelli, E. Ranzi "Computational and experimental study of a JP-8 counterflow diffusion flame" *Chemical and Physical Processes in Combustion* 337-340 (2003).
15. A. Violi, A. D'Anna, A. D'Alessio, A.F. Sarofim, "Modeling Aerosol Formation in Opposed-Flow Diffusion Flames", *Chemosphere* 51(10), 1047-1054 (2003).
14. A. Violi, A. Kubota, T.N. Truong, W.J. Pitz, C.K. Westbrook, A.F. Sarofim, "A Fully-Integrated Kinetic Monte Carlo/Molecular Dynamics Approach for the Simulation of Soot Precursor Growth, *Proc. Combust. Inst* 29(2), 2343-2349 (2002).
13. A. Violi, S. Yan, E.G. Eddings, A.F. Sarofim, S. Granata, T. Faravelli, E. Ranzi "Experimental formulation and kinetic model for JP-8 surrogate mixtures", *Combustion Science and Technology* 174(11-12), 399-417 (2002).
12. A. Violi, A.F. Sarofim, T.N. Truong "Mechanistic Pathways to Explain H/C ratio of soot precursors", *Combustion Science and Technology* 174(11-12): 205-222 (2002).
11. A. D'Anna, A. Violi, A. D'Alessio, A.F. Sarofim, "A Reaction Pathway for Nanoparticle Formation in Rich Premixed Flames" *Combustion and Flame* 127(1-2): 1995-2003 (2001).
10. A. Violi, A.F. Sarofim, T.N. Truong, "Quantum Mechanical Study of Molecular Weight Growth Process by Combination of Aromatic Molecules" *Combustion and Flame* 126(1/2): 1506-1515 (2001).
9. A. Violi, A. D'Anna, A. D'Alessio, "A modeling evaluation of the effect of chlorine on the formation of particulate matter in combustion" *Chemosphere* 42(5-7): 463-471 (2001).
8. A. Violi, X. Chen, G. Lindstrom, E.G. Eddings, A.F. Sarofim, "Validation Web Site: a Collaboratory over the Internet" *Proceeding of the 2001 International Conference on Computational Science (ICCS 2001)*, Springer-Verlag Lecture Notes in Computer Science volume, III-23.
7. A. D'Anna, A. Violi, A. D'Alessio, "Modeling the Rich Combustion of Aliphatic Hydrocarbons" *Combustion and Flame* 121(3): 418-429 (2000).

6. A. D'Alessio, A. D'Anna, P. Minutolo, L.A. Sgro, A. Violi, "On the Relevance of Surface Growth in Soot Formation in Premixed Flames" *Proc. Combust. Inst* 28(2): 2547-2554 (2000).
5. A. Violi, A. D'Anna, A. D'Alessio, M. Astarita, B.M. Vaglieco, "Experimental and Modeling Study of Particulate Formation in High-Pressure Diesel-like Conditions, *Proc. Combust. Inst.* 28(1): 1241-1247 (2000).
4. A. D'Alessio, A. D'Anna, G. Gambi, P. Minutolo, L.A. Sgro, A. Violi, "Combustion-generated nanoparticles" *La Chimica e l'Industria* 81(8): 1001-1006 (1999).
3. A. Violi, A. D'Anna, A. D'Alessio, "Modeling of particulate formation in combustion and pyrolysis", *Chemical Engineering Science* 54(15-16): 3433-3442 (1999).
2. A. D'Anna, A. Violi, "A kinetic model for the formation of aromatic hydrocarbons in premixed laminar flames", *Proc. Combust. Inst.* 27: 425-433 (1998).
1. A. Ciajolo, A. D'Anna, R. Barbella, A. Tregrossi, A. Violi, "The effect of temperature on soot inception in premixed ethylene flames" *Proc. Combust. Inst.* 26(2): 2327-2333 (1996).