# Andrei N Lipatnikov

List of Publications by Year
in descending order



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|---|---|---|---|
| 145 papers | 3,253 citations | 236925 25 h-index | 197818 49 g-index |
| 146 all docs | 146 docs citations | 146 times ranked | 858 citing authors |

| # | Article | IF | Citations |
| --- | --- | --- | --- |
| 1 | A DNS study of extreme and leading points in lean hydrogen-air turbulent flames â€“ Part I: Local thermochemical structure and reaction rates. Combustion and Flame, 2022, 235, 111716. | 5.2 | 6 |
| 2 | A DNS study of extreme and leading points in lean hydrogen-air turbulent flames - part II: Local velocity field and flame topology. Combustion and Flame, 2022, 235, 111712. | 5.2 | 8 |
| 3 | A vented corn starch dust explosion in an 11.5Âm3 vessel: Experimental and numerical study. Journal of Loss Prevention in the Process Industries, 2022, 75, 104707. | 3.3 | 10 |
| 4 | Lewis number and preferential diffusion effects in lean hydrogenâ€“air highly turbulent flames. Physics of Fluids, 2022, 34, . | 4.0 | 17 |
| 5 | Flame folding and conditioned concentration profiles in moderately intense turbulence. Physics of Fluids, 2022, 34, . | 4.0 | 6 |
| 6 | A numerical support of leading point concept. International Journal of Hydrogen Energy, 2022, 47, 23444-23461. | 7.1 | 7 |
| 7 | Influence of equivalence ratio on turbulent burning velocity and extreme fuel consumption rate in lean hydrogen-air turbulent flames. Fuel, 2022, 327, 124969. | 6.4 | 6 |
| 8 | Influence of Thermal Expansion on Potential and Rotational Components of Turbulent Velocity Field Within and Upstream of Premixed Flame Brush. Flow, Turbulence and Combustion, 2021, 106, 1111-1124. | 2.6 | 6 |
| 9 | Assessment of an Evolution Equation for the Displacement Speed of a Constant-Density Reactive Scalar Field. Flow, Turbulence and Combustion, 2021, 106, 1091-1110. | 2.6 | 3 |
| 10 | Evaluation of mean species mass fractions in premixed turbulent flames: A DNS study. Proceedings of the Combustion Institute, 2021, 38, 6413-6420. | 3.9 | 12 |
| 11 | Solenoidal and potential velocity fields in weakly turbulent premixed flames. Proceedings of the Combustion Institute, 2021, 38, 3087-3095. | 3.9 | 6 |
| 12 | Application of Helmholtz-Hodge decomposition and conditioned structure functions to exploring influence of premixed combustion on turbulence upstream of the flame. Proceedings of the Combustion Institute, 2021, 38, 3077-3085. | 3.9 | 7 |
| 13 | Evolution equations for the decomposed components of displacement speed in a reactive scalar field. Journal of Fluid Mechanics, 2021, 911, . | 3.4 | 10 |
| 14 | Validation of leading point concept in RANS simulations of highly turbulent lean syngas-air flames with well-pronounced diffusional-thermal effects. International Journal of Hydrogen Energy, 2021, 46, 9222-9233. | 7.1 | 11 |
| 15 | Dissipation and dilatation rates in premixed turbulent flames. Physics of Fluids, 2021, 33, 035112. | 4.0 | 16 |
| 16 | Assessment of a flamelet approach to evaluating mean species mass fractions in moderately and highly turbulent premixed flames. Physics of Fluids, 2021, 33, . | 4.0 | 16 |
| 17 | Prediction of mean radical concentrations in lean hydrogen-air turbulent flames at different Karlovitz numbers adopting a newly extended flamelet-based presumed PDF. Combustion and Flame, 2021, 226, 248-259. | 5.2 | 18 |
| 18 | Scaling of reaction progress variable variance in highly turbulent reaction waves. Physics of Fluids, 2021, 33, . | 4.0 | 7 |

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| 19 | Passive Front Propagation in Intense Turbulence: Early Transient and Late Statistically Stationary Stages of the Front Area Evolution. Energies, 2021, 14, 5102. | 3.1 | 1 |
| 20 | Smallest scale of wrinkles of a Huygens front in extremely strong turbulence. Physical Review E, 2021, 104, 045101. | 2.1 | 0 |
| 21 | Influence of molecular transport on burning rate and conditioned species concentrations in highly turbulent premixed flames. Journal of Fluid Mechanics, 2021, 928, . | 3.4 | 23 |
| 22 | A priori DNS study of applicability of flamelet concept to predicting mean concentrations of species in turbulent premixed flames at various Karlovitz numbers. Combustion and Flame, 2020, 222, 370-382. | 5.2 | 22 |
| 23 | An extended flamelet-based presumed probability density function for predicting mean concentrations of various species in premixed turbulent flames. International Journal of Hydrogen Energy, 2020, 45, 31162-31178. | 7.1 | 13 |
| 24 | Unsteady 3-D RANS simulations of dust explosion in a fan stirred explosion vessel using an open source code. Journal of Loss Prevention in the Process Industries, 2020, 67, 104237. | 3.3 | 6 |
| 25 | A New Mathematical Framework for Describing Thin-Reaction-Zone Regime of Turbulent Reacting Flows at Low DamkÃ¶hler Number. Fluids, 2020, 5, 109. | 1.7 | 4 |
| 26 | Bifractal nature of turbulent reaction waves at high DamkÃ¶hler and Karlovitz numbers. Physics of Fluids, 2020, 32, . | 4.0 | 7 |
| 27 | Numerical Simulations of Turbulent Combustion. Fluids, 2020, 5, 22. | 1.7 | 1 |
| 28 | Surface-averaged quantities in turbulent reacting flows and relevant evolution equations. Physical Review E, 2019, 100, 013107. | 2.1 | 8 |
| 29 | A direct numerical simulation study of the influence of flame-generated vorticity on reaction-zone-surface area in weakly turbulent premixed combustion. Physics of Fluids, 2019, 31, . | 4.0 | 24 |
| 30 | Assessment of a transport equation for mean reaction rate using DNS data obtained from highly unsteady premixed turbulent flames. International Journal of Heat and Mass Transfer, 2019, 134, 398-404. | 4.8 | 10 |
| 31 | Evolution of averaged local premixed flame thickness in a turbulent flow. Combustion and Flame, 2019, 207, 232-249. | 5.2 | 17 |
| 32 | Thin reaction zones in highly turbulent medium. International Journal of Heat and Mass Transfer, 2019, 128, 1201-1205. | 4.8 | 15 |
| 33 | Thin reaction zones in constant-density turbulent flows at low DamkÃ¶hler numbers: Theory and simulations. Physics of Fluids, 2019, 31, 055104. | 4.0 | 30 |
| 34 | Closure Relations for Fluxes of Flame Surface Density and Scalar Dissipation Rate in Turbulent Premixed Flames. Fluids, 2019, 4, 43. | 1.7 | 8 |
| 35 | Statistics conditioned to isoscalar surfaces in highly turbulent premixed reacting systems. Computers and Fluids, 2019, 187, 69-82. | 2.5 | 7 |
| 36 | Investigation of the influence of combustion-induced thermal expansion on two-point turbulence statistics using conditioned structure functions. Journal of Fluid Mechanics, 2019, 867, 45-76. | 3.4 | 18 |

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| 37 | DNS Study of the Bending Effect Due to Smoothing Mechanism. Fluids, 2019, 4, 31. | 1.7 | 7 |
| 38 | Statistical behaviors of conditioned two-point second-order structure functions in turbulent premixed flames in different combustion regimes. Physics of Fluids, 2019, 31, . | 4.0 | 19 |
| 39 | A DNS Study of Sensitivity of Scaling Exponents for Premixed Turbulent Consumption Velocity to Transient Effects. Flow, Turbulence and Combustion, 2019, 102, 679-698. | 2.6 | 8 |
| 40 | A DNS assessment of linear relations between filtered reaction rate, flame surface density, and scalar dissipation rate in a weakly turbulent premixed flame. Combustion Theory and Modelling, 2019, 23, 245-260. | 1.9 | 10 |
| 41 | Application of conditioned structure functions to exploring influence of premixed combustion on two-point turbulence statistics. Proceedings of the Combustion Institute, 2019, 37, 2433-2441. | 3.9 | 15 |
| 42 | RANS Simulations of Premixed Turbulent Flames. Energy, Environment, and Sustainability, 2018, , 181-240. | 1.0 | 1 |
| 43 | LC/MS at the whole protein level: Studies of biomolecular structure and interactions using native LC/MS and cross-path reactive chromatography (XP-RC) MS. Methods, 2018, 144, 14-26. | 3.8 | 18 |
| 44 | A DNS study of the physical mechanisms associated with density ratio influence on turbulent burning velocity in premixed flames. Combustion Theory and Modelling, 2018, 22, 131-155. | 1.9 | 22 |
| 45 | A DNS Study of Closure Relations for Convection Flux Term in Transport Equation for Mean Reaction Rate in Turbulent Flow. Flow, Turbulence and Combustion, 2018, 100, 75-92. | 2.6 | 16 |
| 46 | Transport equations for reaction rate in laminar and turbulent premixed flames characterized by non-unity Lewis number. International Journal of Hydrogen Energy, 2018, 43, 21060-21069. | 7.1 | 18 |
| 47 | Letter: Does flame-generated vorticity increase turbulent burning velocity?. Physics of Fluids, 2018, 30, . | 4.0 | 23 |
| 48 | Combustion-induced local shear layers within premixed flamelets in weakly turbulent flows. Physics of Fluids, 2018, 30, 085101. | 4.0 | 18 |
| 49 | Recent Advances in Understanding of Thermal Expansion Effects in Premixed Turbulent Flames. Annual Review of Fluid Mechanics, 2017, 49, 91-117. | 25.0 | 74 |
| 50 | Statistical behaviour of vorticity and enstrophy transport in head-on quenching of turbulent premixed flames. European Journal of Mechanics, B/Fluids, 2017, 65, 384-397. | 2.5 | 23 |
| 51 | A balance equation for the mean rate of product creation in premixed turbulent flames. Proceedings of the Combustion Institute, 2017, 36, 1893-1901. | 3.9 | 30 |
| 52 | Stratified turbulent flames: Recent advances in understanding the influence of mixture inhomogeneities on premixed combustion and modeling challenges. Progress in Energy and Combustion Science, 2017, 62, 87-132. | 31.2 | 88 |
| 53 | DNS study of dependence of bulk consumption velocity in a constant-density reacting flow on turbulence and mixture characteristics. Physics of Fluids, 2017, 29, . | 4.0 | 35 |
| 54 | Turbulent diffusion of chemically reacting flows: Theory and numerical simulations. Physical Review E, 2017, 96, 053111. | 2.1 | 20 |

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| 55 | Does Density Ratio Significantly Affect Turbulent Flame Speed?. Flow, Turbulence and Combustion, 2017, 98, 1153-1172. | 2.6 | 19 |
| 56 | Direct numerical simulation study of statistically stationary propagation of a reaction wave in homogeneous turbulence. Physical Review E, 2017, 95, 063101. | 2.1 | 33 |
| 57 | Flamelet perturbations and flame surface density transport in weakly turbulent premixed combustion. Combustion Theory and Modelling, 2017, 21, 205-227. | 1.9 | 19 |
| 58 | Does sensitivity of measured scaling exponents for turbulent burning velocity to flame configuration prove lack of generality of notion of turbulent burning velocity?. Combustion and Flame, 2016, 173, 77-88. | 5.2 | 14 |
| 59 | Analytical and numerical study of travelling waves using the Maxwell-Cattaneo relaxation model extended to reaction-advection-diffusion systems. Physical Review E, 2016, 94, 042218. | 2.1 | 7 |
| 60 | A transport equation for reaction rate in turbulent flows. Physics of Fluids, 2016, 28, 081701. | 4.0 | 22 |
| 61 | Application of Flame Speed Closure Model to RANS Simulations of Stratified Turbulent Combustion in a Gasoline Direct-Injection Spark-Ignition Engine. Combustion Science and Technology, 2016, 188, 98-131. | 2.3 | 11 |
| 62 | Effects of Lewis number on vorticity and enstrophy transport in turbulent premixed flames. Physics of Fluids, 2016, 28, . | 4.0 | 54 |
| 63 | DNS assessment of relation between mean reaction and scalar dissipation rates in the flamelet regime of premixed turbulent combustion. Combustion Theory and Modelling, 2015, 19, 309-328. | 1.9 | 22 |
| 64 | Correlations of high-pressure lean methane and syngas turbulent burning velocities: Effects of turbulent Reynolds, DamkÃ¶hler, and Karlovitz numbers. Proceedings of the Combustion Institute, 2015, 35, 1509-1516. | 3.9 | 48 |
| 65 | Unburned mixture fingers in premixed turbulent flames. Proceedings of the Combustion Institute, 2015, 35, 1401-1408. | 3.9 | 58 |
| 66 | DNS Assessment of a Simple Model for Evaluating Velocity Conditioned to Unburned Gas in Premixed Turbulent Flames. Flow, Turbulence and Combustion, 2015, 94, 513-526. | 2.6 | 23 |
| 67 | Modeling of the Influence of Mixture Fraction Fluctuations on Burning Rate in Partially Premixed Turbulent Flames. Combustion Science and Technology, 2015, 187, 594-626. | 2.3 | 4 |
| 68 | RANS Simulations of Statistically Stationary Premixed Turbulent Combustion Using Flame Speed Closure Model. Flow, Turbulence and Combustion, 2015, 94, 381-414. | 2.6 | 11 |
| 69 | Transition from pulled to pushed fronts in premixed turbulent combustion: Theoretical and numerical study. Combustion and Flame, 2015, 162, 2893-2903. | 5.2 | 28 |
| 70 | Experimental assessment of various methods of determination of laminar flame speed in experiments with expanding spherical flames with positive Markstein lengths. Combustion and Flame, 2015, 162, 2840-2854. | 5.2 | 33 |
| 71 | Numerical and Experimental Study of Stratified Turbulent Combustion in a Spray-Guided Gasoline Direct Injection Engine. Lecture Notes in Mobility, 2015, , 77-84. | 0.2 | 0 |
| 72 | A direct numerical simulation study of interface propagation in homogeneous turbulence. Journal of Fluid Mechanics, 2015, 772, 127-164. | 3.4 | 33 |

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| 73 | A balance equation for modeling conditioned enthalpies in premixed turbulent flames. Combustion and Flame, 2015, 162, 3691-3703. | 5.2 | 0 |
| 74 | A Study of Two Basic Issues Relevant to RANS Simulations of Stratified Turbulent Combustion in a Spray-Guided Direct-Injection Spark-Ignition Engine. , 2014, , . | | 2 |
| 75 | A Numerical Study on Stratified Turbulent Combustion in a Direct-Injection Spark-Ignition Gasoline Engine Using an Open-Source Code. , 2014, , . | | 6 |
| 76 | Three-dimensional direct numerical simulation study of conditioned moments associated with front propagation in turbulent flows. Physics of Fluids, 2014, 26, . | 4.0 | 19 |
| 77 | A direct numerical simulation study of vorticity transformation in weakly turbulent premixed flames. Physics of Fluids, 2014, 26, . | 4.0 | 63 |
| 78 | Speed selection for traveling-wave solutions to the diffusion-reaction equation with cubic reaction term and Burgers nonlinear convection. Physical Review E, 2014, 90, 033004. | 2.1 | 13 |
| 79 | Conditional velocity statistics for high and low DamkÃ¶hler number turbulent premixed combustion in the context of Reynolds Averaged Navier Stokes simulations. Proceedings of the Combustion Institute, 2013, 34, 1333-1345. | 3.9 | 15 |
| 80 | Effects of Lewis number on conditional fluid velocity statistics in low DamkÃ¶hler number turbulent premixed combustion: A direct numerical simulation analysis. Physics of Fluids, 2013, 25, 045101. | 4.0 | 25 |
| 81 | Transition from Countergradient to Gradient Scalar Transport in Developing Premixed TurbulentÂFlames. Flow, Turbulence and Combustion, 2013, 90, 401-418. | 2.6 | 7 |
| 82 | Towards an Extension of TFC Model of Premixed Turbulent Combustion. Flow, Turbulence and Combustion, 2013, 90, 387-400. | 2.6 | 8 |
| 83 | Transition from pulled to pushed premixed turbulent flames dueÂtoÂcountergradient transport. Combustion Theory and Modelling, 2013, 17, 1154-1175. | 1.9 | 26 |
| 84 | Comparison of Presumed PDF Models of Turbulent Flames. Journal of Combustion, 2012, 2012, 1-15. | 1.0 | 4 |
| 85 | Premixed Turbulent Flames. Journal of Combustion, 2011, 2011, 1-2. | 1.0 | 0 |
| 86 | Statistics of Conditional Fluid Velocity in the Corrugated Flamelets Regime of Turbulent Premixed Combustion: A Direct Numerical Simulation Study. Journal of Combustion, 2011, 2011, 1-13. | 1.0 | 4 |
| 87 | Burning Rate in Impinging Jet Flames. Journal of Combustion, 2011, 2011, 1-11. | 1.0 | 2 |
| 88 | Modelling of Gasoline and Ethanol Hollow-Cone Sprays Using OpenFOAM. , 2011, , . | | 11 |
| 89 | A Simple Model for Evaluating Conditioned Velocities in Premixed Turbulent Flames. Combustion Science and Technology, 2011, 183, 588-613. | 2.3 | 18 |
| 90 | Reply to comments by Zimont. Combustion and Flame, 2011, 158, 2073-2074. | 5.2 | 0 |

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| 91 | Transient Behavior of Turbulent Scalar Transport in Premixed Flames. Flow, Turbulence and Combustion, 2011, 86, 609-637. | 2.6 | 12 |
| 92 | Conditioned moments in premixed turbulent reacting flows. Proceedings of the Combustion Institute, 2011, 33, 1489-1496. | 3.9 | 14 |
| 93 | A test of conditioned balance equation approach. Proceedings of the Combustion Institute, 2011, 33, 1497-1504. | 3.9 | 13 |
| 94 | Simulations of Scalar Transport in Developing Turbulent Flames Solving a Conditioned Balance Equation. Combustion Science and Technology, 2010, 182, 405-421. | 2.3 | 2 |
| 95 | Rigorous Derivation of an Unclosed Mean G-Equation for Statistically 1D Premixed Turbulent Flames. International Journal of Spray and Combustion Dynamics, 2010, 2, 301-323. | 1.0 | 9 |
| 96 | Effects of premixed flames on turbulence and turbulent scalar transport. Progress in Energy and Combustion Science, 2010, 36, 1-102. | 31.2 | 177 |
| 97 | Can we characterize turbulence in premixed flames?. Combustion and Flame, 2009, 156, 1242-1247. | 5.2 | 14 |
| 98 | Testing Premixed Turbulent Combustion Models by Studying Flame Dynamics. International Journal of Spray and Combustion Dynamics, 2009, 1, 39-66. | 1.0 | 14 |
| 99 | Conditionally averaged balance equations for modeling premixed turbulent combustion in flamelet regime. Combustion and Flame, 2008, 152, 529-547. | 5.2 | 35 |
| 100 | Some Basic Issues of the Averaged G-Equation Approach to Premixed Turbulent Combustion Modeling. The Open Thermodynamics Journal, 2008, 2, 53-58. | 0.6 | 5 |
| 101 | EFFECTS OF TURBULENT FLAME SPEED DEVELOPMENT AND AXIAL CONVECTIVE WAVES ON OSCILLATIONS OF A LONG DUCTED FLAME. Combustion Science and Technology, 2007, 179, 1433-1449. | 2.3 | 3 |
| 102 | SCALAR TRANSPORT IN SELF-SIMILAR, DEVELOPING, PREMIXED, TURBULENT FLAMES. Combustion Science and Technology, 2007, 179, 91-115. | 2.3 | 8 |
| 103 | Global stretch effects in premixed turbulent combustion. Proceedings of the Combustion Institute, 2007, 31, 1361-1368. | 3.9 | 35 |
| 104 | Effects of flame development on stationary premixed turbulent combustion. Proceedings of the Combustion Institute, 2007, 31, 3115-3122. | 3.9 | 11 |
| 105 | NUMERICAL TESTS OF A MEASUREMENT METHOD FOR TURBULENT BURNING VELOCITY IN STAGNATION FLAMES. Combustion Science and Technology, 2006, 178, 1117-1141. | 2.3 | 3 |
| 106 | Numerical Modeling of Stationary But Developing Premixed Turbulent Flames. , 2006, , 691. | | 0 |
| 107 | A theoretical study of premixed turbulent flame development. Proceedings of the Combustion Institute, 2005, 30, 843-850. | 3.9 | 24 |
| 108 | Molecular transport effects on turbulent flame propagation and structure. Progress in Energy and Combustion Science, 2005, 31, 1-73. | 31.2 | 294 |

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| 109 | Effects of turbulent flame development on thermoacoustic oscillations. Combustion and Flame, 2005, 142, 130-139. | 5.2 | 20 |
| 110 | Modeling of Turbulent Scalar Transport in Expanding Spherical Flames. , 2005, , . | | 0 |
| 111 | Self-similarly developing, premixed, turbulent flames: A theoretical study. Physics of Fluids, 2005, 17, 065105. | 4.0 | 26 |
| 112 | APPLICATION OF THE MARKSTEIN NUMBER CONCEPT TO CURVED TURBULENT FLAMES. Combustion Science and Technology, 2004, 176, 331-358. | 2.3 | 25 |
| 113 | A study of the effects of pressure-driven transport on developing turbulent flame structure and propagation. Combustion Theory and Modelling, 2004, 8, 211-225. | 1.9 | 11 |
| 114 | Comment on â€œTurbulent burning velocity, burned gas distribution, and associated flame surface definitionâ€. Combustion and Flame, 2004, 137, 261-263. | 5.2 | 11 |
| 115 | Flame Speed Closure Model of Premixed Turbulent Combustion : Further Development and Validation(S.I. Engines, Flame Propagation). The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines, 2004, 2004.6, 583-590. | 0.1 | 4 |
| 116 | Effects of Flame Development and Structure on Thermo-Acoustic Oscillations of Premixed Turbulent Flames(S.I. Engines, Flame Propagation). The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines, 2004, 2004.6, 599-606. | 0.1 | 0 |
| 117 | A Numerical Study of Weakly Turbulent Premixed Combustion with Flame Speed Closure Model. , 2003, , . | | 2 |
| 118 | Are premixed turbulent stagnation flames equivalent to fully developed ones? A computational study. Combustion Science and Technology, 2002, 174, 3-26. | 2.3 | 16 |
| 119 | TRANSIENT AND CURVATURE EFFECTS WHEN DEFINING BURNING VELOCITY AND SPEED OF PREMIXED TURBULENT FLAMES. , 2002, , 853-862. | | 0 |
| 120 | Simulations of Fuel/Air Mixing, Combustion, and Pollutant Formation in a Direct Injection Gasoline Engine. , 2002, , . | | 8 |
| 121 | Modeling of stratified combustion in a direct-ignition, spark-ignition engine accounting for complex chemistry. Proceedings of the Combustion Institute, 2002, 29, 703-709. | 3.9 | 24 |
| 122 | Turbulent burning velocity and speed of developing, curved, and strained flames. Proceedings of the Combustion Institute, 2002, 29, 2113-2121. | 3.9 | 32 |
| 123 | Turbulent flame speed and thickness: phenomenology, evaluation, and application in multi-dimensional simulations. Progress in Energy and Combustion Science, 2002, 28, 1-74. | 31.2 | 473 |
| 124 | Comments on: â€œPremixed flames in stagnating turbulence part Vâ€"evaluation of models for the chemical source termâ€•by K. N. C. Bray, M. Champion, and P. A. Libby. Combustion and Flame, 2002, 131, 219-221. | 5.2 | 5 |
| 125 | Developing Premixed Turbulent Flames: Part I. A Self-Similar Regime of Flame Propagation. Combustion Science and Technology, 2001, 162, 85-112. | 2.3 | 22 |
| 126 | Developing Premixed Turbulent Flames: Part II. Pressure-Driven Transport and Turbulent Diffusion. Combustion Science and Technology, 2001, 165, 175-195. | 2.3 | 10 |

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| 127 | A Method for Evaluating Fully Developed Turbulent Flame Speed. , 2001, , . | | 0 |
| 128 | (2-10) Towards Evaluation of Turbulent Flame Speed((SI-4)S. I. Engine Combustion 4-Flame Propagation). The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines, 2001, 01.204, 31. | 0.1 | 0 |
| 129 | Dependence of heat release on the progress variable in premixed turbulent combustion. Proceedings of the Combustion Institute, 2000, 28, 227-234. | 3.9 | 17 |
| 130 | Modeling of Pressure and Non-Stationary Effects in Spark Ignition Engine Combustion: A Comparison of Different Approaches. , 2000, , . | | 4 |
| 131 | Transient and Geometrical Effects in Expanding Turbulent Flames. Combustion Science and Technology, 2000, 154, 75-117. | 2.3 | 37 |
| 132 | Lewis Number Effects in Premixed Turbulent Combustion and Highly Perturbed Laminar Flames. Combustion Science and Technology, 1998, 137, 277-298. | 2.3 | 36 |
| 133 | Randomness of Flame Kernel Development in Turbulent Gas Mixture. , 1998, , . | | 2 |
| 134 | A Simple Model of Unsteady Turbulent Flame Propagation. , 1997, , . | | 31 |
| 135 | Finding the markstein number using the measurements of expanding spherical laminar flames. Combustion and Flame, 1997, 109, 436-448. | 5.2 | 73 |
| 136 | A test of an engineering model of premixed turbulent combustion. Proceedings of the Combustion Institute, 1996, 26, 249-257. | 0.3 | 71 |
| 137 | Some Issues of Using Markstein Number for Modeling Premixed Turbulent Combustion. Combustion Science and Technology, 1996, 119, 131-154. | 2.3 | 23 |
| 138 | Numerical modeling of nitrogen oxide formation in turbulent combustion of a premixed gas mixture. Combustion, Explosion and Shock Waves, 1993, 29, 326-330. | 0.8 | 0 |
| 139 | Nitrogen oxide formation in a flame at slight deviations from equilibrium. Combustion, Explosion and Shock Waves, 1989, 24, 407-409. | 0.8 | 0 |
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| 141 | Turbulent Flame Speed Closure Model: Further Development and Implementation for 3-D Simulation of Combustion in SI Engine. , 0, , . | | 8 |
| 142 | Chemical Model of Gasoline-Ethanol Blends for Internal Combustion Engine Applications. , 0, , . | | 19 |
| 143 | Large Eddy Simulation of Stratified Combustion in Spray-guided Direct Injection Spark-ignition Engine. , 0, , . | | 2 |
| 144 | Fundamentals of Premixed Turbulent Combustion. , 0, , . | | 70 |

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| 145 | <b>Conditioned structure functions in turbulent hydrogen/air flames</b>. Physics of Fluids, 0, , . | 4.0 | 5 |