

Dr.A.P.Sathiyagnanam
Associate Professor
Mechanical Engineering
Annamalai university(deputed to Government College of Engineering,Salem)
Chidambaram 608002

LIST OF RECENT PUBLICATIONS

Kulandaivel, D., Rahamathullah, I.G., Sathiyagnanam, A.P., Gopal, K., Damodharan, D., Melvin Victor, D.P.
57217227260;39062123400;13405323500;57204300949;57192088075;57192158681;
Effect of retarded injection timing and EGR on performance, combustion and emission characteristics of a CRDi diesel engine fueled with WHDPE oil/diesel blends
(2020) Fuel, 278, art. no. 118304, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086861893&doi=10.1016%2Fj.fuel.2020.118304&partnerID=40&md5=88e45bf21591baba97b8f14799b5ff35>

DOI: 10.1016/j.fuel.2020.118304
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Rajesh, A., Gopal, K., Melvin Victor, D.P., Rajesh Kumar, B., Sathiyagnanam, A.P., Damodharan, D.
57217168367;57204300949;57192158681;57194436130;13405323500;57192088075;
Effect of anisole addition to waste cooking oil methyl ester on combustion, emission and performance characteristics of a DI diesel engine without any modifications
(2020) Fuel, 278, art. no. 118315, . Cited 4 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086565187&doi=10.1016%2Fj.fuel.2020.118315&partnerID=40&md5=f4f8fe18171c34e3de36be2b6634d8a2>

DOI: 10.1016/j.fuel.2020.118315
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Gopal, K., Sathiyagnanam, A.P., Rajesh Kumar, B., Damodharan, D., De Poures, M.V., Saravanan, S., Rana, D., Sethuramasamyraja, B.
57204300949;13405323500;57194436130;57192088075;57192158681;35171413600;7007036653;6507350795;
Prediction and optimization of engine characteristics of a DI diesel engine fueled with cyclohexanol/diesel blends
(2020) Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 42 (16), pp. 2006-2017. Cited 3 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85065192230&doi=10.1080%2F15567036.2019.1607923&partnerID=40&md5=e22678b27f4e46a559421911d90211b9>

DOI: 10.1080/15567036.2019.1607923
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

De Poures, M.V., Gopal, K., Sathiyagnanam, A.P., Rajesh Kumar, B., Rana, D., Saravanan, S., Damodharan, D.
57192158681;57204300949;13405323500;57194436130;7007036653;35171413600;57192088075;

Comparative account of the effects of two high carbon alcohols (C5 & C6) on combustion, performance and emission characteristics of a DI diesel engine (2020) Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 42 (14), pp. 1772-1784. Cited 5 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064703771&doi=10.1080%2f15567036.2019.1604888&partnerID=40&md5=05215416dd07248c019ccbc05fdf2c>

DOI: 10.1080/15567036.2019.1604888

DOCUMENT TYPE: Article

PUBLICATION STAGE: Final

SOURCE: Scopus

Dillikannan, D., Dilipsingh, J., De Poures, M.V., Kaliyaperumal, G., Sathiyagnanam, A.P., Babu, R.K., Mukilarasan, N.
57192088075;57191850943;57192158681;57204300949;13405323500;57194436130;57205402752;

Effective utilization of waste plastic oil/n-hexanol in an off-road, unmodified DI diesel engine and evaluating its performance, emission, and combustion characteristics

(2020) Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 42 (11), pp. 1375-1390. Cited 9 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85064703353&doi=10.1080%2f15567036.2019.1604853&partnerID=40&md5=2264ef3fce055dc46a34a1b32a4a407b>

DOI: 10.1080/15567036.2019.1604853

DOCUMENT TYPE: Article

PUBLICATION STAGE: Final

SOURCE: Scopus

Damodharan, D., Gopal, K., Sathiyagnanam, A.P., Rajesh Kumar, B., Depoures, M.V., Mukilarasan, N.

57192088075;57204300949;13405323500;57194436130;57219968949;57205402752;

Performance and emission study of a single cylinder diesel engine fuelled with n-octanol/WPO with some modifications

(2019) International Journal of Ambient Energy, . Article in Press. Cited 11 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85059886435&doi=10.1080%2f01430750.2018.1563824&partnerID=40&md5=c0dc3d33ad8ed9f25b928fb26cb350ba>

DOI: 10.1080/01430750.2018.1563824

DOCUMENT TYPE: Article in Press

PUBLICATION STAGE: Article in Press

SOURCE: Scopus

Gowthaman, S., Sathiyagnanam, A.P.

55954093800;13405323500;

Analysis the optimum inlet air temperature for controlling homogeneous charge compression ignition (HCCI) engine

(2018) Alexandria Engineering Journal, 57 (4), pp. 2209-2214. Cited 8 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85028649154&doi=10.1016%2fj.aej.2017.08.011&partnerID=40&md5=8649d84caba921e3b231edc5940c44b1>

DOI: 10.1016/j.aej.2017.08.011
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
OPEN ACCESS: All Open Access, Gold
SOURCE: Scopus

Damodharan, D., Sathiyagnanam, A.P., Rana, D., Saravanan, S., Rajesh Kumar, B., Sethuramasamyraja, B.
57192088075;13405323500;7007036653;35171413600;57194436130;6507350795;
Effective utilization of waste plastic oil in a direct injection diesel engine using high carbon alcohols as oxygenated additives for cleaner emissions
(2018) Energy Conversion and Management, 166, pp. 81-97. Cited 35 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045378552&doi=10.1016%2fj.enconman.2018.04.006&partnerID=40&md5=cac3adea73d6cdab0ee2b1ff9f27f45c>

DOI: 10.1016/j.enconman.2018.04.006
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Gopal, K., Sathiyagnanam, A.P., Rajesh Kumar, B., Saravanan, S., Rana, D., Sethuramasamyraja, B.
57204300949;13405323500;57194436130;35171413600;7007036653;6507350795;
Prediction of emissions and performance of a diesel engine fueled with n-octanol/diesel blends using response surface methodology
(2018) Journal of Cleaner Production, 184, pp. 423-439. Cited 43 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044518367&doi=10.1016%2fj.jclepro.2018.02.204&partnerID=40&md5=2ebe486d7b8f2044043c184366409d09>

DOI: 10.1016/j.jclepro.2018.02.204
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Damodharan, D., Sathiyagnanam, A.P., Rajesh Kumar, B., Ganesh, K.C.
57192088075;13405323500;57194436130;55315245600;
Cleaner emissions from a DI diesel engine fueled with waste plastic oil derived from municipal solid waste under the influence of n-pentanol addition, cold EGR, and injection timing
(2018) Environmental Science and Pollution Research, 25 (14), pp. 13611-13625. Cited 24 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045135535&doi=10.1007%2fs11356-018-1558-5&partnerID=40&md5=de7e027633aff123379ef6bb13db337b>

DOI: 10.1007/s11356-018-1558-5
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Damodharan, D., Sathiyagnanam, A.P., Rana, D., Kumar, B.R., Saravanan, S.
57192088075;13405323500;7007036653;57198558092;35171413600;
Combined influence of injection timing and EGR on combustion, performance and emissions of DI diesel engine fueled with neat waste plastic oil
(2018) Energy Conversion and Management, 161, pp. 294-305. Cited 61 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85044635409&doi=10.1016%2fj.enconman.2018.01.045&partnerID=40&md5=cd6ab0765aa42076a3198b500bfded50>

DOI: 10.1016/j.enconman.2018.01.045
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Gowthaman, S., Sathiyagnanam, A.P.
55954093800;13405323500;
Performance and emission characteristics of homogeneous charge compression
ignition engine-a review
(2017) International Journal of Ambient Energy, 38 (7), pp. 672-684. Cited
6 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961392131&doi=10.1080%2f01430750.2016.1155491&partnerID=40&md5=9614c9d521034d8fa605375dd12c50e4>

DOI: 10.1080/01430750.2016.1155491
DOCUMENT TYPE: Review
PUBLICATION STAGE: Final
SOURCE: Scopus

Velmurugan, K., Sathiyagnanam, A.P.
57212177503;13405323500;
Effect of biodiesel fuel properties and formation of NOx emissions: a
review
(2017) International Journal of Ambient Energy, 38 (6), pp. 644-651. Cited
5 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961654665&doi=10.1080%2f01430750.2016.1155486&partnerID=40&md5=db176758c3141c20a8ad83291d43d09f>

DOI: 10.1080/01430750.2016.1155486
DOCUMENT TYPE: Review
PUBLICATION STAGE: Final
SOURCE: Scopus

Gowthaman, S., Sathiyagnanam, A.P.
55954093800;13405323500;
Effect of inlet charge temperature on a diesel-fuelled homogeneous charge
compression ignition engine
(2017) International Journal of Ambient Energy, 38 (6), pp. 590-596. Cited
1 time.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961145438&doi=10.1080%2f01430750.2016.1155489&partnerID=40&md5=0c0fd0ea3fb1fd1b8b87a024a2aa83dc>

DOI: 10.1080/01430750.2016.1155489
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

De Pours, M.V., Sathiyagnanam, A.P., Rana, D., Rajesh Kumar, B.,
Saravanan, S.
57192158681;13405323500;7007036653;57194436130;35171413600;
1-Hexanol as a sustainable biofuel in DI diesel engines and its effect on
combustion and emissions under the influence of injection timing and
exhaust gas recirculation (EGR)
(2017) Applied Thermal Engineering, 113, pp. 1505-1513. Cited 56 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84998865545&doi=10.1016%2fj.applthermaleng.2016.11.164&partnerID=40&md5=a0b16b60f80a577bb9243aa5aec4832c>

DOI: 10.1016/j.applthermaleng.2016.11.164

DOCUMENT TYPE: Article

PUBLICATION STAGE: Final

SOURCE: Scopus

Gowthaman, S., Sathiyagnanam, A.P.

55954093800;13405323500;

The effect of exhaust gas recirculation on performance and emission characteristics of HCCI engine

(2017) International Journal of Ambient Energy, 38 (2), pp. 178-185. Cited 4 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84940765272&doi=10.1080%2f01430750.2015.1074616&partnerID=40&md5=14a5833d43e61dae58735ced4b07ab71)

[84940765272&doi=10.1080%2f01430750.2015.1074616&partnerID=40&md5=14a5833d43e61dae58735ced4b07ab71](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84940765272&doi=10.1080%2f01430750.2015.1074616&partnerID=40&md5=14a5833d43e61dae58735ced4b07ab71)

DOI: 10.1080/01430750.2015.1074616

DOCUMENT TYPE: Article

PUBLICATION STAGE: Final

SOURCE: Scopus

Damodharan, D., Sathiyagnanam, A.P., Rana, D., Rajesh Kumar, B., Saravanan, S.

57192088075;13405323500;7007036653;57194436130;35171413600;

Extraction and characterization of waste plastic oil (WPO) with the effect of n-butanol addition on the performance and emissions of a DI diesel engine fueled with WPO/diesel blends

(2017) Energy Conversion and Management, 131, pp. 117-126. Cited 58 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84996866135&doi=10.1016%2fj.enconman.2016.10.076&partnerID=40&md5=718b2eb2ffb451f59726456aac85cc2a)

[84996866135&doi=10.1016%2fj.enconman.2016.10.076&partnerID=40&md5=718b2eb2ffb451f59726456aac85cc2a](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84996866135&doi=10.1016%2fj.enconman.2016.10.076&partnerID=40&md5=718b2eb2ffb451f59726456aac85cc2a)

DOI: 10.1016/j.enconman.2016.10.076

DOCUMENT TYPE: Article

PUBLICATION STAGE: Final

SOURCE: Scopus

Vijayaraj, K., Sathiyagnanam, A.P.

56418534100;13405323500;

Combustion characteristics of a DI diesel engine fuelled with blends of methyl ester of cotton seed oil

(2016) International Journal of Ambient Energy, 37 (6), pp. 633-638. Cited 4 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84926208176&doi=10.1080%2f01430750.2015.1023841&partnerID=40&md5=17deb80e875f32a8aeb7c90b41c10678)

[84926208176&doi=10.1080%2f01430750.2015.1023841&partnerID=40&md5=17deb80e875f32a8aeb7c90b41c10678](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84926208176&doi=10.1080%2f01430750.2015.1023841&partnerID=40&md5=17deb80e875f32a8aeb7c90b41c10678)

DOI: 10.1080/01430750.2015.1023841

DOCUMENT TYPE: Article

PUBLICATION STAGE: Final

SOURCE: Scopus

Gowthaman, S., Sathiyagnanam, A.P.

55954093800;13405323500;

Effects of charge temperature and fuel injection pressure on HCCI engine

(2016) Alexandria Engineering Journal, 55 (1), pp. 119-125. Cited 19 times.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961839334&doi=10.1016%2fj.aej.2015.12.025&partnerID=40&md5=c3c3cf024c37b020dad0c0cdbb97f9c8)

[84961839334&doi=10.1016%2fj.aej.2015.12.025&partnerID=40&md5=c3c3cf024c37b020dad0c0cdbb97f9c8](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84961839334&doi=10.1016%2fj.aej.2015.12.025&partnerID=40&md5=c3c3cf024c37b020dad0c0cdbb97f9c8)

DOI: 10.1016/j.aej.2015.12.025

DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
OPEN ACCESS: All Open Access, Gold
SOURCE: Scopus

Vijayaraj, K., Sathiyagnanam, A.P.
56418534100;13405323500;
Experimental investigation of a diesel engine with methyl ester of mango seed oil and diesel blends
(2016) Alexandria Engineering Journal, 55 (1), pp. 215-221. Cited 31 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84960815253&doi=10.1016%2fj.aej.2015.12.001&partnerID=40&md5=85bb916b5fc8f519370069d4fab91975>

DOI: 10.1016/j.aej.2015.12.001
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
OPEN ACCESS: All Open Access, Gold
SOURCE: Scopus

Velmurugan, K., Sathiyagnanam, A.P.
57212177503;13405323500;
Impact of antioxidants on NOx emissions from a mango seed biodiesel powered di diesel engine
(2016) Alexandria Engineering Journal, 55 (1), pp. 715-722. Cited 48 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84960796219&doi=10.1016%2fj.aej.2015.10.004&partnerID=40&md5=dd791a2f8321e6b8ab6878b440b893bc>

DOI: 10.1016/j.aej.2015.10.004
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
OPEN ACCESS: All Open Access, Gold
SOURCE: Scopus

Gowthaman, S., Sathiyagnanam, A.P.
55954093800;13405323500;
Experimental investigation on performance and emission characteristics of homogeneous charge compression ignition (HCCI) engine fuelled by biodiesel
(2015) International Journal of Applied Engineering Research, 10 (11), pp. 10134-10139.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85016138944&partnerID=40&md5=2fd21d024a3543501983a5ef440ccb46>

DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Gowthaman, S., Sathiyagnanam, A.P.
55954093800;13405323500;
Investigate theperformance and emission characteristics of temperature chargedmethyl ester fuelled homogeneous charge compression ignition (HCCI) engine
(2015) International Journal of Applied Engineering Research, 10 (13), pp. 11033-11047.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84942326493&partnerID=40&md5=a2a0ac5a548df438dba6ae6cac3318fd>

DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Velmurugan, K., Sathiyagnanam, A.P.

57212177503;13405323500;

Mitigation of Nox emission from mango seed methyl ester fuelled Di diesel engine using antioxidant additive

(2015) International Journal of Applied Engineering Research, 10 (2), pp. 2809-2818.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84926665680&partnerID=40&md5=796bd09dc18c2f14293f342a5aa19fb2)

[84926665680&partnerID=40&md5=796bd09dc18c2f14293f342a5aa19fb2](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84926665680&partnerID=40&md5=796bd09dc18c2f14293f342a5aa19fb2)

DOCUMENT TYPE: Article

PUBLICATION STAGE: Final

SOURCE: Scopus

Vijayaraj, K., Sathiyagnanam, A.P.

56418534100;13405323500;

Performance, emission and combustion characteristics of a diesel engine with methyl ester of mango seed oil and diesel blends

(2015) International Journal of Mechanical and Mechatronics Engineering, 15 (1), pp. 48-55. Cited 1 time.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84925217832&partnerID=40&md5=198e5fd58650cea021ca41a3a9b68729)

[84925217832&partnerID=40&md5=198e5fd58650cea021ca41a3a9b68729](https://www.scopus.com/inward/record.uri?eid=2-s2.0-84925217832&partnerID=40&md5=198e5fd58650cea021ca41a3a9b68729)

DOCUMENT TYPE: Article

PUBLICATION STAGE: Final

SOURCE: Scopus