

Dr.Kandasamy Ramachandran

UGC-Associate Professor

Department of Physics

Bharathiar University,

Coimbatore- 641046

LIST OF RECENT PUBLICATIONS

Stephen, E.N., Asirvatham, L.G., Ramachandran, K., Solomon, A.B., RamKumar, P.

57203969695;26424520000;57208872126;36619768200;57208098815;

Feasibility of Al₂O₃/Water Nanofluid in a Compact Loop Heat Pipe

(2021) Lecture Notes in Mechanical Engineering, pp. 467-483.

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093909007&doi=10.1007%2f978-981-15-4488-0_40&partnerID=40&md5=fed85dfe7c956407cff9a72bfc47c9d0)

[85093909007&doi=10.1007%2f978-981-15-4488-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093909007&doi=10.1007%2f978-981-15-4488-0_40&partnerID=40&md5=fed85dfe7c956407cff9a72bfc47c9d0)

[0_40&partnerID=40&md5=fed85dfe7c956407cff9a72bfc47c9d0](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85093909007&doi=10.1007%2f978-981-15-4488-0_40&partnerID=40&md5=fed85dfe7c956407cff9a72bfc47c9d0)

DOI: 10.1007/978-981-15-4488-0_40

DOCUMENT TYPE: Conference Paper

PUBLICATION STAGE: Final

SOURCE: Scopus

Laly, L.G., Ramachandran, K.

57202030561;57208872126;

Numerical studies on the effects of operating parameters on the behaviour of transferred arc inside the crucible with gas injection through the cathode at different operating pressures

(2020) Plasma Research Express, 2 (2), art. no. 025005, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092604883&doi=10.1088%2f2516-1067%2fab89c9&partnerID=40&md5=9fe04829a4f3f66dd9c53a03d4dal1f30)

[85092604883&doi=10.1088%2f2516-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092604883&doi=10.1088%2f2516-1067%2fab89c9&partnerID=40&md5=9fe04829a4f3f66dd9c53a03d4dal1f30)

[1067%2fab89c9&partnerID=40&md5=9fe04829a4f3f66dd9c53a03d4dal1f30](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092604883&doi=10.1088%2f2516-1067%2fab89c9&partnerID=40&md5=9fe04829a4f3f66dd9c53a03d4dal1f30)

DOI: 10.1088/2516-1067/ab89c9

DOCUMENT TYPE: Article

PUBLICATION STAGE: Final

SOURCE: Scopus

Saravanakumar, R., Ramachandran, K., Padmanabhan, P.V.A.

57212705668;57208872126;57219384169;

Plasma Assisted Aluminothermic Reduction of Cr and Fe Oxides from Chromium Bearing Waste

(2020) Plasma Chemistry and Plasma Processing, .

[https://www.scopus.com/inward/record.uri?eid=2-s2.0-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092444750&doi=10.1007%2fs11090-020-10131-w&partnerID=40&md5=048b50a3aldd9ad3f8037d341050f491)

[85092444750&doi=10.1007%2fs11090-020-10131-](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092444750&doi=10.1007%2fs11090-020-10131-w&partnerID=40&md5=048b50a3aldd9ad3f8037d341050f491)

[w&partnerID=40&md5=048b50a3aldd9ad3f8037d341050f491](https://www.scopus.com/inward/record.uri?eid=2-s2.0-85092444750&doi=10.1007%2fs11090-020-10131-w&partnerID=40&md5=048b50a3aldd9ad3f8037d341050f491)

DOI: 10.1007/s11090-020-10131-w

DOCUMENT TYPE: Article

PUBLICATION STAGE: Article in Press

SOURCE: Scopus

Sowmiya, K., Ramachandran, K., Abiyazhini, R., Barath, V.R.

57211645049;57208872126;57211638666;57201187852;

Numerical evaluation on the performance of CO₂ plasma in material processing applications

(2019) *Materials and Manufacturing Processes*, 34 (15), pp. 1775-1782. Cited 3 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85074682521&doi=10.1080%2f10426914.2019.1683575&partnerID=40&md5=429888405faf4b4de59531f78fd39ef9>

DOI: 10.1080/10426914.2019.1683575

DOCUMENT TYPE: Article

PUBLICATION STAGE: Final

SOURCE: Scopus

Catherine Joy, R., Albert Rajan, A., Brusly Solomon, A., Ramachandran, K., Pillai, B.C.

57205207605;57193695964;36619768200;57208872126;35788544300;

Experimental investigation on the critical heat flux of Cu-water, Al-water nanofluids for precise cooling of electronic systems

(2019) *IOP Conference Series: Materials Science and Engineering*, 561 (1), art. no. 012036, . Cited 1 time.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85075468544&doi=10.1088%2f1757-899X%2f561%2f1%2f012036&partnerID=40&md5=a9e4e408f85e0458d254f01fb33d7804>

DOI: 10.1088/1757-899X/561/1/012036

DOCUMENT TYPE: Conference Paper

PUBLICATION STAGE: Final

OPEN ACCESS: All Open Access, Bronze

SOURCE: Scopus

Yugeswaran, S., Ananthapadmanabhan, P.V., Kumaresan, L., Kuberan, A., Sivakumar, S., Shanmugavelayutham, G., Ramachandran, K.

14632831100;7003345282;57204233378;57201337821;57213696423;6505911375;5720872126;

Synthesis of zirconium nitride from zircon sand by transferred arc plasma assisted carbothermal reduction and nitridation process

(2018) *Ceramics International*, 44 (12), pp. 14789-14796. Cited 4 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85047096102&doi=10.1016%2fj.ceramint.2018.05.109&partnerID=40&md5=3ff84e4ec196f4ca7c089d88961ecf96>

DOI: 10.1016/j.ceramint.2018.05.109

DOCUMENT TYPE: Article

PUBLICATION STAGE: Final

SOURCE: Scopus

Laly, L.G., Ramachandran, K.

57202030561;57208872126;

Modeling of a transferred arc inside a crucible with gas injection through a hollow cathode

(2018) *Journal of Physics D: Applied Physics*, 51 (30), art. no. 305202, . Cited 4 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85050118001&doi=10.1088%2f1361-6463%2faacd5c&partnerID=40&md5=9570f1618a61790474d7d74e2d31c654>

DOI: 10.1088/1361-6463/aacd5c

DOCUMENT TYPE: Article

PUBLICATION STAGE: Final

SOURCE: Scopus

Saravanakumar, R., Ramachandran, K., Laly, L.G., Ananthapadmanabhan, P.V., Yugeswaran, S.

57212705668;57208872126;57202030561;7003345282;14632831100;
Plasma assisted synthesis of γ -alumina from waste aluminium dross
(2018) Waste Management, 77, pp. 565-575. Cited 8 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85046881592&doi=10.1016%2fj.wasman.2018.05.005&partnerID=40&md5=21bd88f824e83ab8970a4127beb1d4f0>

DOI: 10.1016/j.wasman.2018.05.005
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Yugesh, V., Ravi, G., Ramachandran, K., Vidhi, G., Meher, K.C.
57193665448;57196745897;57208872126;57201643293;56076898600;
Influence of the Shroud Gas Injection Configuration on the Characteristics
of a DC Non-transferred Arc Plasma Torch
(2018) Plasma Chemistry and Plasma Processing, 38 (4), pp. 759-770. Cited 2
times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85045447530&doi=10.1007%2fs11090-018-9890-6&partnerID=40&md5=0dc7cbfd0abba62530a395e52fa91d09>

DOI: 10.1007/s11090-018-9890-6
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Vadikkeettil, Y., Ravi, G., Ramachandran, K.
57196747047;57196745897;57208872126;
Prediction of operational characteristics of a dc non-transferred arc
plasma torch using similarity criteria
(2017) European Physical Journal D, 71 (10), art. no. 247, . Cited 1 time.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85033687996&doi=10.1140%2fepjd%2fe2017-80207-6&partnerID=40&md5=de8bc5a32f4629ab1447e3a52e132b9d>

DOI: 10.1140/epjd/e2017-80207-6
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Brusly Solomon, A., Arul Daniel, V., Ramachandran, K., Pillai, B.C.,
Renjith Singh, R., Sharifpur, M., Meyer, J.P.
36619768200;57193209626;57208872126;35788544300;56720378200;23092177300;740
6101417;
Performance enhancement of a two-phase closed thermosiphon with a thin
porous copper coating
(2017) International Communications in Heat and Mass Transfer, 82, pp. 9-
19. Cited 24 times.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85011634299&doi=10.1016%2fj.icheatmasstransfer.2017.02.001&partnerID=40&md5=4060c7bf6e0895ae00b74aa620b21aee>

DOI: 10.1016/j.icheatmasstransfer.2017.02.001
DOCUMENT TYPE: Article
PUBLICATION STAGE: Final
SOURCE: Scopus

Solomon, A.B., Ram Kumar, A.M., Ramachandran, K., Pillai, B.C., Senthil
Kumar, C., Sharifpur, M., Meyer, J.P.

36619768200;57189851890;57208872126;35788544300;57212487233;23092177300;7406101417;

Characterisation of a grooved heat pipe with an anodised surface

(2017) Heat and Mass Transfer/Waerme- und Stoffuebertragung, 53 (3), pp. 753-763. Cited 15 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84975275442&doi=10.1007%2fs00231-016-1856-8&partnerID=40&md5=15c721390d4cfdbccdec7db3e9457844>

DOI: 10.1007/s00231-016-1856-8

DOCUMENT TYPE: Article

PUBLICATION STAGE: Final

SOURCE: Scopus

Karthikeyan, V.K., Ramachandran, K., Pillai, B.C., Brusly Solomon, A.

55909956500;57208872126;35788544300;36619768200;

Understanding thermo-fluidic characteristics of a glass tube closed loop pulsating heat pipe: flow patterns and fluid oscillations

(2015) Heat and Mass Transfer/Waerme- und Stoffuebertragung, 51 (12), pp. 1669-1680. Cited 17 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84944278807&doi=10.1007%2fs00231-015-1525-3&partnerID=40&md5=f30fe77afe0fc2c85c1fd6777f620e8d>

DOI: 10.1007/s00231-015-1525-3

DOCUMENT TYPE: Article

PUBLICATION STAGE: Final

SOURCE: Scopus

Pragatheeswaran, A., Ananthapadmanabhan, P.V., Chakravarthy, Y.,

Chaturvedi, V., Bhandari, S., Ramachandran, K.

35847862200;7003345282;37012489000;56029199500;56029988400;57208872126;

Plasma Spray Deposition of Lanthanum Phosphate and Phase Structure of the Resultant Coatings

(2015) Journal of Thermal Spray Technology, 24 (8), pp. 1377-1384. Cited 7 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84949623984&doi=10.1007%2fs11666-015-0320-5&partnerID=40&md5=9312a412a2b5a90584a8dda74a5eb71e>

DOI: 10.1007/s11666-015-0320-5

DOCUMENT TYPE: Article

PUBLICATION STAGE: Final

SOURCE: Scopus

Yugeswaran, S., Ananthapadmanabhan, P.V., Thiyagarajan, T.K., Ramachandran, K.

14632831100;7003345282;6602685969;57208872126;

Plasma dissociation of zircon with concurrent in-flight removal of silica

(2015) Ceramics International, 41 (8), art. no. 10427, pp. 9585-9592. Cited 5 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84930925607&doi=10.1016%2fj.ceramint.2015.04.020&partnerID=40&md5=ba0b19a7c186386bfa4b73c33fa48579>

DOI: 10.1016/j.ceramint.2015.04.020

DOCUMENT TYPE: Article

PUBLICATION STAGE: Final

SOURCE: Scopus

Pragatheeswaran, A., Ananthapadmanabhan, P.V., Chakravarthy, Y., Bhandari, S., Chaturvedi, V., Nagaraj, A., Ramachandran, K.
35847862200;7003345282;37012489000;56029988400;56029199500;35784921600;57208872126;

Plasma spray-deposited lanthanum phosphate coatings for protection against molten uranium corrosion

(2015) Surface and Coatings Technology, 265, pp. 166-173. Cited 13 times.

<https://www.scopus.com/inward/record.uri?eid=2-s2.0->

84925302483&doi=10.1016%2fj.surfcoat.2015.01.040&partnerID=40&md5=8f67ed34627db8a68d7f98c680feb6b4

DOI: 10.1016/j.surfcoat.2015.01.040

DOCUMENT TYPE: Article

PUBLICATION STAGE: Final

SOURCE: Scopus