# Aa Arkadan

## List of Publications by Year
in descending order

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|---|---|
| 47 papers | 615 citations |
| 623734 — 14 h-index | 677142 — 22 g-index |
| 47 all docs | 47 docs citations |
| 47 times ranked | 278 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 1 | The coupled problem in switched reluctance motor drive systems during fault conditions. IEEE Transactions on Magnetics, 1994, 30, 3256-3259. | 2.1 | 49 |
| 2 | Switched reluctance motor drive systems dynamic performance prediction and experimental verification. IEEE Transactions on Energy Conversion, 1994, 9, 36-44. | 5.2 | 46 |
| 3 | Switched reluctance motor drive systems dynamic performance prediction under internal and external fault conditions. IEEE Transactions on Energy Conversion, 1994, 9, 45-52. | 5.2 | 41 |
| 4 | A time-stepping coupled finite element-state space model for induction motor drives. I. Model formulation and machine parameter computation. IEEE Transactions on Energy Conversion, 1999, 14, 1465-1471. | 5.2 | 41 |
| 5 | Computation of winding inductances of permanent magnet brushless DC motors with damper windings by energy perturbation. IEEE Transactions on Energy Conversion, 1988, 3, 705-713. | 5.2 | 38 |
| 6 | Performance prediction of SRM drive systems under normal and fault operating conditions using GA-based ANN method. IEEE Transactions on Magnetics, 2000, 36, 1945-1949. | 2.1 | 35 |
| 7 | Particle Swarm Design Optimization of ALA Rotor SynRM for Traction Applications. IEEE Transactions on Magnetics, 2009, 45, 956-959. | 2.1 | 34 |
| 8 | Genetic algorithms for nondestructive testing in crack identification. IEEE Transactions on Magnetics, 1994, 30, 4320-4322. | 2.1 | 25 |
| 9 | Finite element modeling of a transformer feeding a rectified load: the coupled power electronics and nonlinear magnetic field problem. IEEE Transactions on Magnetics, 1991, 27, 5217-5219. | 2.1 | 24 |
| 10 | A time-stepping coupled finite element-state space model for induction motor drives. II. Machine performance computation and verification. IEEE Transactions on Energy Conversion, 1999, 14, 1472-1478. | 5.2 | 24 |
| 11 | Modeling of transients in permanent magnet generators with multiple damping circuits using the natural abc frame of reference. IEEE Transactions on Energy Conversion, 1988, 3, 722-731. | 5.2 | 21 |
| 12 | Dynamic stress in magnetic actuator computed by coupled structural and electromagnetic finite elements. IEEE Transactions on Magnetics, 1996, 32, 1046-1049. | 2.1 | 21 |
| 13 | Impact of load on winding inductances of permanent magnet generators with multiple damping circuits using energy perturbation. IEEE Transactions on Energy Conversion, 1988, 3, 880-889. | 5.2 | 20 |
| 14 | Computer-aided modeling of a rectified DC load-permanent magnet generator system with multiple damper windings in the natural abc frame of reference. IEEE Transactions on Energy Conversion, 1989, 4, 518-525. | 5.2 | 15 |
| 15 | Effects of force fitting on the inductance profile of a switched reluctance motor. IEEE Transactions on Magnetics, 1993, 29, 2006-2009. | 2.1 | 15 |
| 16 | Characterization of axially laminated anisotropic-rotor synchronous reluctance motors. IEEE Transactions on Energy Conversion, 1999, 14, 506-511. | 5.2 | 14 |
| 17 | ANN inverse mapping technique applied to electromagnetic design. IEEE Transactions on Magnetics, 2001, 37, 3584-3587. | 2.1 | 14 |
| 18 | Nonlinear transient finite element modeling of a capacitor-discharge magnetizing fixture. IEEE Transactions on Magnetics, 1993, 29, 2051-2054. | 2.1 | 13 |

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|---|---------|-----|-----------|
| 19 | Magnetic field and core loss evaluation of ALA-motor synchronous reluctance machines taking into account material anisotropy. IEEE Transactions on Magnetics, 1998, 34, 3507-3510. | 2.1 | 12 |
| 20 | Shape optimization of PM devices using constrained gradient based inverse problem methodology. IEEE Transactions on Magnetics, 1996, 32, 1222-1225. | 2.1 | 11 |
| 21 | Parameters evaluation of ALA synchronous reluctance motor drives. IEEE Transactions on Magnetics, 2000, 36, 1950-1955. | 2.1 | 11 |
| 22 | Theoretical development and experimental verification of a DC-AC electronically rectified load-generator system model compatible with common network analysis software packages. IEEE Transactions on Energy Conversion, 1988, 3, 123-131. | 5.2 | 10 |
| 23 | Three-dimensional nonlinear finite element modeling of a voltage source excited transformer feeding a rectifier load. IEEE Transactions on Magnetics, 1992, 28, 2265-2267. | 2.1 | 10 |
| 24 | Design optimization of a capacitive transducer for displacement measurement. IEEE Transactions on Magnetics, 1999, 35, 1869-1872. | 2.1 | 10 |
| 25 | Effects of chopping on core losses and inductance profiles of SRM drives. IEEE Transactions on Magnetics, 1997, 33, 2105-2108. | 2.1 | 8 |
| 26 | NDT identification of a crack using ANNs with stochastic gradient descent. IEEE Transactions on Magnetics, 1995, 31, 1984-1987. | 2.1 | 7 |
| 27 | Effects of toothless stator design on dynamic model parameters of permanent magnet generators. IEEE Transactions on Energy Conversion, 1993, 8, 243-250. | 5.2 | 6 |
| 28 | Effects of anisotropy on the performance characteristics of an axially laminated anisotropic-rotor synchronous reluctance motor drive system. IEEE Transactions on Magnetics, 1998, 34, 3600-3603. | 2.1 | 6 |
| 29 | Computer aided models for the characterization of synchronous reluctance motor drive systems. IEEE Transactions on Energy Conversion, 1999, 14, 1459-1464. | 5.2 | 6 |
| 30 | EM-TFL environment for the design optimization of electromagnetic launchers. IEEE Transactions on Magnetics, 2005, 41, 1772-1775. | 2.1 | 6 |
| 31 | Effects of forced power transfer on high speed generator-load systems. IEEE Transactions on Energy Conversion, 1996, 11, 344-352. | 5.2 | 5 |
| 32 | An algebraic approach to prediction of the performance of PM electric machines during sustained fault conditions. , 0, , . | | 5 |
| 33 | Three-dimensional nonlinear finite element modeling of a voltage source excited transformer feeding a rectifier load. , 0, , . | | 2 |
| 34 | Switched reluctance motor control with artificial neural networks. , 0, , . | | 2 |
| 35 | Identifying an inaccessible electrostatic source with gradient-based inverse problem methodology and boundary elements. IEEE Transactions on Magnetics, 1999, 35, 1578-1581. | 2.1 | 2 |
| 36 | Computation Of Dynamic Model Parameters Of Permanent Magnet Synchronous Generators With Multiple Damping Circuits. , 0, , . | | 1 |

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|---|---------|-----|-----------|
| 37 | Impact Of Addition Of Rotor Damping Circuits On Dynamic Performance Of Permanent Magnet Synchronous Generators. , 0, , . | | 1 |
| 38 | Miniaturization of an electron device using inverse problem methodology. IEEE Transactions on Magnetics, 1996, 32, 1290-1293. | 2.1 | 1 |
| 39 | Effects of converter excitation on the performance of axially laminated anisotropic synchronous reluctance motor drives. IEEE Transactions on Magnetics, 1999, 35, 1865-1868. | 2.1 | 1 |
| 40 | A Novel Approach for Characterization and Optimization of ALA Rotor Synchronous Reluctance Motor Drives for Traction Applications. , 0, , . | | 1 |
| 41 | R-FL-C Model for Design Optimization of PM Generators. , 0, , . | | 1 |
| 42 | A time-stepping coupled finite element-state space model for induction motor drives. II. Machine performance computation and verification. , 0, , . | | 0 |
| 43 | Computer aided models for the characterization of synchronous reluctance motor drive systems. , 0, , . | | 0 |
| 44 | A time-stepping coupled finite element-state space model for induction motor drives. I. Model formulation and machine parameter computation. , 0, , . | | 0 |
| 45 | Electromagnetic fuzzy logic scheme for the characterization of ac actuators. IEEE Transactions on Magnetics, 2005, 41, 3985-3987. | 2.1 | 0 |
| 46 | Characterization of Stand Alone AC Generators during No-Break Power Transfer using AI-EM Based Approach. , 0, , . | | 0 |
| 47 | Design Optimization of ALA Rotor SynRM Drives using T-AI-EM Environment. , 0, , . | | 0 |