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480. King Abdullah University of Science and Technology; Saudi Aramco

481. King Abdullah University of Science and Technology; Saudi Aramco

482. King Abdullah University of Science and Technology

483. Texas Tech University; The University of Tennessee, Knoxville
484. ClearFlame Engines, Inc.

485. Argonne National Laboratory

486. Texas Tech University; The University of Tennessee, Knoxville

487. Texas Tech University; The University of Tennessee, Knoxville

488. Ganpat University; National Institute of Technology, Surat; Gdhyana Sanshodhana Nagari Foundation

489. Shandong Jiaotong University; Harbin Engineering University

490. Cummins Inc.; Indian Institute of Technology Bombay

491. Argonne National Laboratory

492. IAV GmbH; Technische Universität Berlin

493. The University of Texas at Austin

494. The University of Texas at Austin; Cummins Inc.
495. Argonne National Laboratory; Convergent Science; Air Force Research Laboratory

496. Argonne National Laboratory

497. The University of Melbourne; Continental; KU Leuven

498. Tsinghua University; Aramco Americas; FAWDE; WFIERI FAW; Shandong Chambroad Petrochemicals

499. Shanghai Jiao Tong University

500. CMT-Motores Térmicos; Groupe Renault

501. Southwest Research Institute

502. Southwest Research Institute; Convergent Science

503. IFP Energies nouvelles

504. Universitat Politècnica de València

505. Seoul National University

506. Seoul National University; Hyundai Motor Company
507. IFP Energies nouvelles; Convergent Science

508. Clemson University; Oak Ridge National Laboratory; Daimler Trucks North America

509. King Abdullah University of Science and Technology; Volvo Group

510. University of Wisconsin–Madison

511. King Abdullah University of Science and Technology; Volvo Group; Chalmers University of Technology

512. Universitat Politècnica de València; POWERTECH Engineering

513. Tianjin University

514. Gamma Technologies

515. Aramco Research Center

516. Università degli Studi di Perugia; Convergent Science; Universidad de Oviedo; IFP Energies nouvelles

517. Saudi Aramco

518. Texas Tech University; Virtual Thermal Fluids, LLC; Oakland University
519. Marmara University

520. Technische Universität München

521. Technische Universität München

522. Technische Universität München

523. RWTH Aachen University; University of Stuttgart

524. RWTH Aachen University; FEV Europe GmbH

525. RWTH Aachen University

526. Aristotle University of Thessaloniki

527. General Motors R&D

528. Tsinghua University

529. University of California, Berkeley; University of Zagreb; Lawrence Berkeley National Laboratory

530. Oakland University; Texas Tech University
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531. Argonne National Laboratory; University of Illinois at Chicago

532. Wayne State University

533. Wayne State University; Army Research Laboratory

534. King Abdullah University of Science and Technology; Saudi Aramco

535. Argonne National Laboratory; North Carolina State University

536. RWTH Aachen University

537. Purdue University; Convergent Science

538. FEV

539. Sepuluh Nopember Institute of Technology

540. Marquette University

541. Guangxi University; Guangxi Yuchai Machinery Group Co., Ltd.; Zhengzhou Yutong Bus Co., Ltd.
542. **Southwest Research Institute**  

543. **Shanghai Jiao Tong University**  

544. **Alexandria University; Coventry University; Saudi Aramco; Arab Academy for Science, Technology & Maritime Transport; University of Brighton; King Abdullah University of Science and Technology; Egypt-Japan University of Science and Technology**  

545. **Texas Tech University; Oakland University**  

546. **Southwest Research Institute; Michigan Technological University**  

547. **State Key Laboratory of Power System of Tractor; Xi'an Jiaotong University; Wuhan University of Technology**  

548. **Amrita Vishwa Vidyapeetham; Renault Nissan Technology and Business Centre India**  

549. **Beijing Institute of Technology; Collaborative Innovation Center of Electric Vehicles in Beijing**  

550. **University of Minnesota**  

551. **CMT-Motores Térmicos**  

552. **Technion – Israel Institute of Technology**  
553. **King Abdullah University of Science and Technology**

554. **Huazhong University of Science and Technology; Texas Tech University; Shanghai Jiao Tong University**

555. **Tongji University; Smapow Engine Company; Xi’an jiaotong University**

556. **Hebei University of Technology; Shandong University; China Automotive Technology & Research Center Co., Ltd.**

557. **Université de Pau et des Pays de l’Adour**

558. **Colorado State University**

559. **Convergent Science**

560. **Inha University**

561. **Universiti Kebangsaan Malaysia**

562. **CMT-Motores Térmicos; Argonne National Laboratory**

563. **Inha University**
564. **Chalmers University of Technology; Winterthur Gas & Diesel Ltd.; National Technical University of Athens**

565. **Argonne National Laboratory; Convergent Science; Air Force Research Laboratory**

566. **King Abdullah University of Science and Technology; Saudi Aramco**

567. **Tianjin University**

568. **Tianjin University**

569. **Tianjin University; China Shipbuilding Power Engineering Institute Co., Ltd.**

570. **Argonne National Laboratory**

571. **Tianjin University; King Abdullah University of Science and Technology; Brunel University London**

572. **Ford Motor Company**

573. **Argonne National Laboratory; U.S. Army Research Laboratory; Lawrence Livermore National Laboratory**

574. **Convergent Science; Argonne National Laboratory; University of California, Irvine**
575. Argonne National Laboratory; Sandia National Laboratories

576. Argonne National Laboratory; Sandia National Laboratories

577. Aramco Services Company

578. Colorado State University; Cummins Inc.

579. Argonne National Laboratory; Aramco Services Company; Convergent Science; FRIENDSHIP SYSTEMS AG

580. Argonne National Laboratory; Aramco Services Company

581. Argonne National Laboratory; Convergent Science; ClearFlame Engines, Inc.

582. Convergent Science; IFP Energies nouvelles

583. Argonne National Laboratory; University of Connecticut

584. Esgee Technologies; Cummins Inc.; Convergent Science; The University of Texas at Austin
585. University of Oxford

586. Argonne National Laboratory; Oak Ridge National Laboratory; Lawrence Livermore National Laboratory

587. University of Michigan; Shanghai Jiao Tong University

588. Argonne National Laboratory; Aramco Services Company

589. Argonne National Laboratory; Aramco Services Company

590. Texas Tech University

591. Michigan Technological University

592. Aramco Services Company; Cummins Inc.

593. King Abdullah University of Science and Technology

594. Indian Institute of Technology Bombay; Cummins Inc.

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595. Colorado State University; Colorado School of Mines

596. University of Illinois at Chicago; Argonne National Laboratory; University of Connecticut; Lawrence Livermore National Laboratory

597. Carnegie Mellon University

598. Perto Gestão de Tecnologia S.A.; University of São Paulo

599. Politecnico di Torino; Università degli Studi di Perugia; POWERTECH Engineering; PUNCH Torino S.p.A.

600. Politecnico di Torino

601. Convergent Science; Argonne National Laboratory

602. Norwegian University of Science and Technology

603. FEV Europe GmbH; Tongji University; RWTH Aachen University

604. The Ohio State University

605. IFP Energies nouvelles
606. Purdue University; Convergent Science

607. IFP Energies nouvelles; Convergent Science

608. North Carolina State University; Argonne National Laboratory

609. Beijing Institute of Technology; China North Engine Research Institute; Université d’Orléans

610. King Abdullah University of Science and Technology; Saudi Aramco

611. Indian Institute of Technology Bombay; Cummins Inc.

612. Argonne National Laboratory; Parallel Works Inc.

613. FEV Europe GmbH

614. Oakland University; Texas Tech University

615. Texas Tech University; Oakland University

616. Oakland University; Texas Tech University; Ford Motor Company

617. POWERTECH Engineering; Politecnico di Torino
618. University of Ulsan

619. University of Manitoba; National Research Council, Canada

620. Jiangsu University; Wayne State University

621. University of Minnesota; Carnegie Mellon University

622. Argonne National Laboratory; Università degli Studi di Perugia; Indian Institute of Technology Delhi

623. Beijing Institute of Technology; Collaborative Innovation Center of Electric Vehicles in Beijing

624. Beijing Institute of Technology; Collaborative Innovation Center of Electric Vehicles in Beijing

625. University of Wisconsin–Madison; Ford Motor Company

626. Indian Institute of Technology Madras

627. University of Michigan

628. The Ohio State University; Oak Ridge National Laboratory

629. Hunan University; University of Canterbury; Guizhou University
630. Shanghai Jiao Tong University; China Liaohe Petroleum Engineering Co., Ltd.

631. Saudi Aramco; King Abdullah University of Science and Technology

632. CMT-Motores Térmicos

633. Politecnico di Torino; POWERTECH Engineering; Università degli Studi di Perugia

634. CMT-Motores Térmicos

635. Tongji University; Oakland University; Texas Tech University

636. Shanghai Jiao Tong University

637. IFP Energies nouvelles

638. IFP Energies nouvelles

639. Argonne National Laboratory

640. IFP Energies nouvelles; Université d’Orléans

641. General Motors Global Research and Development
642. Politecnico di Torino

643. Xi'an Jiaotong University; National University of Ireland, Galway

644. University of Manitoba; National Research Council, Canada

645. RWTH Aachen University; FEV Europe GmbH; OWI Oel-Waerme-Institut gGmbH

646. Politecnico di Bari; Istituto Motori CNR

647. Tohoku University; Keihin Corp.; Institute of F-Tech

648. Argonne National Laboratory

649. Wayne State University

650. Argonne National Laboratory; Taitech, Inc.; Air Force Research Laboratory

651. Università degli Studi dell'Aquila; Istituto Motori CNR

652. Istituto Motori CNR; Università degli Studi dell'Aquila
653. **CMT-Motores Térmicos; Argonne National Laboratory**

654. **Argonne National Laboratory; Convergent Science; Air Force Research Laboratory**

655. **King Abdullah University of Science and Technology**
https://repository.kaust.edu.sa/bitstream/handle/10754/664493/MickaelSilvaThesis.pdf?sequence=2&isAllowed=y

656. **Dalian Maritime University; University of Strathclyde**

657. **London South Bank University**

658. **Politecnico di Bari; University of Wisconsin–Madison**

659. **University of Perugia; University of Bologna; Magneti Marelli**


675. **CMT-Motores Térmicos**


676. **King Abdullah University of Science and Technology; Tianjin University**


677. **Shenzhen University; Chongqing University of Technology; Hunan University**


678. **National Institute of Technology, Surat; Gdhyan Sanshodhana Nagari Foundation**


679. **National Institute of Technology Meghalaya**


680. **Politecnico di Torino; POWERTECH Engineering; General Motors Global Propulsion Systems**


681. **University of Oxford; The University of British Columbia**


682. **Wuhan University of Science and Technology**


683. **CMT-Motores Térmicos**


684. **Michigan Technological University; University of Massachusetts Dartmouth; Argonne National Laboratory**


685. **King Abdullah University of Science and Technology; Saudi Aramco**

686. Argonne National Laboratory

687. Argonne National Laboratory

688. Argonne National Laboratory; Aramco Research Center

689. Hino Motors, Ltd.; Sandia National Laboratories; Argonne National Laboratory

690. Saudi Aramco; Doosan Infracore

691. University of Oxford

692. Convergent Science

693. University of Michigan

694. Clemson University

695. Sandia National Laboratories; Hino Motors, Ltd.

696. Sandia National Laboratories

697. Saudi Aramco; King Abdullah University of Science and Technology; Aramco Research Center; Argonne National Laboratory; FRIENDSHIP SYSTEMS AG
698. Tianjin University; BAIC Motor Powertrain Co., Ltd.

699. Tianjin University

700. Tianjin University

701. University of Massachusetts Lowell

702. Politecnico di Torino; POWERTECH Engineering; Università degli Studi di Perugia; Cornaglia S.p.A.; STSE S.r.l.

703. University of Connecticut; Université Larbi Ben M’hidi

704. Tianjin University; Brunel University London

705. FEV Europe GmbH; Max Planck Institute for Chemical Energy Conversion; Instituto de Tecnología Química; Vrije Universiteit Brussel; VTT Technical Research Centre of Finland Ltd; OWI Oel-Waerme-Institut gGmbH; INERATEC GmbH; RWTH Aachen University; Uniresearch

706. Oakland University; Ford Motor Company; Texas Tech University

707. Ecole Nationale Polytechnique d’Oran; LTE Laboratory; Ecole Militaire Polytechnique, Algeria; University Center of Naâma; University of Abou Bekr Belkaid Tlemcen
708. Argonne National Laboratory

709. Beijing University of Technology

710. Tianjin University

711. University of Wisconsin-Madison

712. Indian Institute of Technology Bombay; Cummins Inc.

713. King Abdullah University of Science and Technology; Saudi Aramco

714. Purdue University

715. Argonne National Laboratory; Aramco Services Company; CMT-Motores Térmicos; ETH Zurich

716. Marmara University

717. Manchester Metropolitan University; King Abdullah University of Science and Technology; University of Hiroshima

718. Michigan Technological University

719. Purdue University
720. Tianjin University; Argonne National Laboratory

721. Brandenburg University of Technology; LOGE AB; Renault SAS

722. Brandenburg University of Technology; LOGE AB; Renault SAS

723. Indian Institute of Technology Bombay; Cummins Inc.

724. Stony Brook University

725. Argonne National Laboratory

726. National Renewable Energy Laboratory

727. National Renewable Energy Laboratory; University of Connecticut

728. Imperial College London; The University of Melbourne; University of Brighton

729. Guangxi University; Guangxi Yuchai Machinery Group Co., Ltd.; Zhengzhou Yutong Bus Co., Ltd.

730. University of Ulsan; Indonesian Institute of Sciences

731. National Institute of Advanced Industrial Science and Technology
732. Stony Brook University; Clemson University

733. IFP Energies nouvelles

734. Sandia National Laboratories; Oregon State University

735. University of Rome Tor Vergata; University of Salento; HELMo Gramme

736. Isuzu Advanced Engineering Center, Ltd.; Yokohama National University

737. RMIT University

738. RWTH Aachen University; Ford-Werke GmbH; Ford Research Center Aachen

739. Chalmers University of Technology

740. Argonne National Laboratory

741. University of Science and Technology of China; Zhejiang University; Southwest University of Science and Technology; Texas Tech University

742. Argonne National Laboratory; University of Connecticut

743. Argonne National Laboratory
Argonne National Laboratory

Argonne National Laboratory; Sandia National Laboratories; University of Massachusetts Lowell; University of Connecticut; Lawrence Livermore National Laboratory

Texas Tech University; Oakland University

Shanghai Jiao Tong University; Argonne National Laboratory

Harbin Engineering University

Navistar, Inc.

University of Rome Tor Vergata; The University of Alabama

University of Massachusetts Lowell

Aramco Research Center - Detroit

Argonne National Laboratory; University of Illinois at Chicago; University of Connecticut; Lawrence Livermore National Laboratory
754. Michigan Technological University; Aramco Research Center - Detroit

755. Argonne National Laboratory; University of Illinois Urbana-Champaign; Indian Institute of Technology Delhi

756. Indian Institute of Technology Madras

757. Indian Institute of Technology Delhi

758. Caterpillar Inc.; Universitat Politècnica de València

759. Tianjin University

760. Purdue University

761. Hunan University; Xihua University

762. Saudi Aramco

763. Politecnico di Torino

764. Oregon State University
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765. GE Global Research Center; Baker Hughes Company; The University of Oklahoma

766. Indian Institute of Technology Bombay; Cummins Inc.

767. Tongji University

768. Università degli Studi di Perugia

769. New Ace Inst. Co. Ltd.; IFP Energies nouvelles

770. Universitat Politècnica de València

771. Guangxi University; Liuzhou Vocational & Technical College

772. IFP Energies nouvelles; Convergent Science

773. University of Ulsan; Indonesian Institute of Sciences

774. Beijing Institute of Technology; Hebei University of Engineering

775. Politecnico di Bari; Istituto Motori CNR

776. Tianjin University; University of Wisconsin–Madison
777. **CMT-Motores Térmicos**

778. **RWTH Aachen University; FEV Europe GmbH**

779. **Argonne National Laboratory; Università degli Studi di Perugia; Indian Institute of Technology Delhi**

780. **Convergent Science**

781. **Convergent Science; Caterpillar Inc.; Sandia National Laboratories**

782. **Politecnico di Torino**

783. **Hunan University; Wayne State University; Jiangsu University; Central South University of Forestry and Technology**

784. **Tianjin University**

785. **Argonne National Laboratory; Convergent Science; Michigan Technological University**

786. **Convergent Science; Argonne National Laboratory**

787. **Argonne National Laboratory; Università degli Studi di Perugia**
788. Ecole Nationale Polytechnique d’Oran; LTE Laboratory; University Center of Nâama; University of Abou Bekr Belkaid Tlemcen; Institute Mines-Telecom Atlantique de Nantes, France

789. RWTH Aachen University

790. RWTH Aachen University

791. RWTH Aachen University

792. RWTH Aachen University

793. RWTH Aachen University; Ford-Werke GmbH

794. University of Ulsan; Indonesian Institute of Sciences

795. Tianjin University

796. IFP Energies nouvelles

797. Argonne National Laboratory; Michigan Technological University; University of Massachusetts Dartmouth

798. King Abdullah University of Science and Technology
799. Tianjin University; CSSC Marine Power Co., Ltd

800. Marquette University
https://epublications.marquette.edu/cgi/viewcontent.cgi?article=1543&context=theses_open

801. University of Wisconsin–Madison

802. Universidad de Antioquia

803. Shanghai Jiao Tong University
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804. Politecnico di Milano; RWTH Aachen University; Lawrence Livermore National Laboratory; Convergent Science; National University of Ireland, Galway

805. Argonne National Laboratory; Università degli Studi di Perugia

806. Argonne National Laboratory; Università degli Studi di Perugia

807. Argonne National Laboratory; Università degli Studi di Perugia

808. Argonne National Laboratory; Università degli Studi di Perugia

809. Università degli Studi di Perugia; University of Bologna

810. Argonne National Laboratory; Università degli Studi di Perugia
811. Indian Institute of Technology Delhi; Università degli Studi di Perugia; Argonne National Laboratory; University of Waterloo

812. Università degli Studi di Perugia; Argonne National Laboratory

813. Argonne National Laboratory; Università degli Studi di Perugia

814. Università degli Studi di Perugia; Argonne National Laboratory

815. Argonne National Laboratory; Università degli Studi di Perugia; Convergent Science

816. Università degli Studi di Perugia; Argonne National Laboratory

817. Michigan State University; Convergent Science

818. Hunan University; Xihua University; University of Canterbury; Shenzhen University

819. Tianjin University; China Shipbuilding Power Engineering Institute Co., Ltd.

820. University of Michigan; General Motors R&D

821. Brandenburg University of Technology; LOGE AB; Renault SAS

822. Indian Institute of Technology Bombay; Cummins Inc.
823. FEV

824. Prometheus Applied Technologies, LLC; Universität der Bundeswehr München

825. ABB Turbo Systems

826. Oak Ridge National Laboratory; ExxonMobil Research & Engineering; MAHLE Powertrain; Hans Jensen Lubricators

827. Tianjin University; China Shipbuilding Power Engineering Institute Co., Ltd.

828. Woodward, Inc.

829. GE Global Research Center; Convergent Science

830. Southwest Research Institute; GE Global Research Center

831. Jiangsu University

832. Harbin Engineering University; HOERBIGER Wien GmbH
834. Shanghai Jiao Tong University; China Shipbuilding Power Engineering Institute Co., Ltd.

835. Technische Universität München

836. Harbin Engineering University

837. Tianjin University

838. Hebei University of Technology; Tianjin University; University of Strathclyde; China Shipbuilding Power Engineering Institute Co., Ltd.

839. University of Michigan; General Motors R&D

840. Shanghai Jiao Tong University; General Motors R&D

841. Tsinghua University

842. Convergent Science; Argonne National Laboratory; Aramco Research Center

843. Tianjin University; China Shipbuilding Power Engineering Institute Co., Ltd.

844. Stony Brook University
845. Shenzhen University; Chongqing University; Hunan University

846. Amrita Vishwa Vidyapeetham; Renault Nissan Technology and Business Centre India; Renault SAS

847. University of Waterloo

848. Tsinghua University

849. King Abdullah University of Science and Technology; Saudi Aramco

850. Tianjin University; Brunel University London; China North Engine Research Institute

851. Shanghai Jiao Tong University; King Abdullah University of Science and Technology

852. Colorado State University

853. Sojo University

854. Sojo University

855. Sojo University
856. Argonne National Laboratory: Oak Ridge National Laboratory

857. Tsinghua University

858. University of Science and Technology of China; Zhejiang University; Texas Tech University

859. University of Michigan; Hongik University; Sandia National Laboratories

860. Hebei University of Technology; Shandong University

861. University of Massachusetts Lowell

862. North Carolina State University
https://repository.lib.ncsu.edu/bitstream/handle/1840.20/36350/etd.pdf?sequence=1.

863. Wuhan University; University of Illinois Urbana-Champaign; China Ship Development and Design Center

864. Beijing Institute of Technology; Collaborative Innovation Center of Electric Vehicles in Beijing

865. University of California, Berkeley; Tianjin University

866. Stony Brook University; Sandia National Laboratories


879. **Aramco Services Company; Argonne National Laboratory**

880. **Tianjin University; Brunel University London; China North Engine Research Institute**

881. **Stony Brook University**

882. **Argonne National Laboratory; University of Perugia; Bennett University**

883. **Argonne National Laboratory; University of Perugia; Bennett University**

884. **Argonne National Laboratory; University of Perugia**

885. **Gardner Denver Schopfheim GmbH**

886. **CMT-Motores Térmicos**

887. **CMT-Motores Térmicos**

888. **Mississippi State University**

889. **Aramco Research Center**
890. **Convergent Science**

891. **Hiltner Combustion Systems; Caterpillar Inc.**

892. **General Motors; AVL Dacolt**

893. **General Motors**

894. **Pinnacle Engines; Oak Ridge National Laboratory**

895. **Argonne National Laboratory**

896. **Argonne National Laboratory; Sandia National Laboratories**

897. **Argonne National Laboratory; University of Connecticut; Convergent Science**

898. **Argonne National Laboratory; University of Connecticut**
900. Tongji University

901. Aramco Research Center; Argonne National Laboratory; Delphi Technologies

902. Southwest Research Institute

903. Caterpillar Inc.

904. Lawrence Livermore National Laboratory; Clemson University International Center for Automotive Research; Clemson University; Auburn University

905. Tianjin University; Brunel University London

906. Aramco Research Center; BorgWarner Turbo Systems

907. Delphi Technologies; Achates Power

908. IFP Energies nouvelles; Convergent Science

909. Convergent Science

910. Convergent Science

911. University of Oxford
912. **FCA US LLC; Virginia Tech; Texas Tech University**

913. **Argonne National Laboratory; Università degli Studi di Perugia; Indian Institute of Technology Delhi**

914. **University of Massachusetts Amherst; Argonne National Laboratory; Monash University; Convergent Science; Hino Motors, Ltd.; Artium Technologies, Inc.; Sandia National Laboratories; ICON Technology & Process Consulting Ltd.**

915. **Universitat Politècnica de València**

916. **ClearFlame Engines, Inc.; Argonne National Laboratory**

917. **Tianjin University; Guangxi Yuchai Machinery Group Co., Ltd.**

918. **Indian Institute of Technology**

919. **King Abdullah University of Science and Technology; Volvo**

920. **Tongji University; Chongqing University; Y&C Engine Co., Ltd.**

921. **University of Oxford; Jaguar Land Rover**

922. **Indian Institute of Technology Bombay**
923. Saudi Aramco; Aramco Services Company

924. Mainstream Engineering Corporation

925. Technische Universität München

926. Aramco Services Company; Argonne National Laboratory

927. GE Global Research Center; Convergent Science; Oak Ridge National Laboratory

928. University of Windsor

929. University of Windsor

930. King Abdullah University of Science and Technology

931. Southwest Research Institute

932. Tianjin University; Argonne National Laboratory; Ford Motor Company

933. Texas Tech University; Oakland University
Indian Institute of Technology Madras

Southwest Research Institute

Aramco Research Center; Argonne National Laboratory; FRIENDSHIP SYSTEMS AG; Convergent Science

Indian Institute of Technology Madras

University Center of Nâama; Institute Mines-Telecom Atlantique de Nantes, France; University of Abou Bekr Belkaid Tlemcen

Daihatsu Motor Co., Ltd.

University of Waterloo

University of Waterloo

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946. Argonne National Laboratory; Politecnico di Torino

947. University of Massachusetts Amherst; Convergent Science; Oregon State University; Northeastern University

948. Lund University; King Abdullah University of Science and Technology

949. Convergent Science; Sanden International (Europe) Ltd.

950. Convergent Science

951. Convergent Science; Tecumseh Products Company

952. Convergent Science

953. Argonne National Laboratory; Achates Power

954. Cummins Inc.; Indian Institute of Technology Bombay

955. Michigan Technological University; Aramco Services Company; Convergent Science
956. Argonne National Laboratory; Convergent Science; Michigan Technological University

957. General Motors R&D; University of Michigan

958. Argonne National Laboratory; Oak Ridge National Laboratory

959. University of Oxford; Loughborough University

960. Texas Tech University; Oakland University

961. Technische Universität München

962. Texas Tech University; Oakland University

963. University of Alabama

964. University of Rome Tor Vergata; University of Alabama

965. University of Massachusetts Lowell
966. Argonne National Laboratory

967. Guangxi University

968. RWTH Aachen University

969. Shanghai Jiao Tong University

970. Argonne National Laboratory

971. CMT-Motores Térmicos

972. CMT-Motores Térmicos

973. Universitat Politècnica de València; Jiangsu University; Integrale Marketing and Consulting SLU

974. Universitat Politècnica de València

975. CMT-Motores Térmicos

976. CMT-Motores Térmicos; Groupe Renault

977. CMT-Motores Térmicos
978. CMT-Motores Térmicos

979. CMT-Motores Térmicos

980. IDAJ Co. LTD

981. CMT-Motores Térmicos

982. CMT-Motores Térmicos

983. CMT-Motores Térmicos

984. CMT-Motores Térmicos

985. CMT-Motores Térmicos

986. Convergent Science; Argonne National Laboratory; Aramco Research Center

987. Convergent Science; Argonne National Laboratory

988. IFP Energies nouvelles; Convergent Science
989. Argonne National Laboratory; Aramco Research Center

990. University of Manitoba

991. Technion – Israel Institute of Technology

992. Hebei University of Technology; Shandong University

993. Shanghai Jiao Tong University; Lund University; Dalian University of Technology

994. Tianjin University

995. Beijing Institute of Technology

996. University of Manitoba

997. Convergent Science; Pinnacle Engines; Oak Ridge National Laboratory

998. University of Cincinnati; Wayne State University

999. Convergent Science; TU Dortmund University
1000. West Virginia University

1001. West Virginia University; National Research Council, Canada; Tianjin University

1002. Kocaeli University; Sakarya University

1003. DENSO Corporation

1004. Convergent Science

1005. Federal University of Santa Catarina

1006. Argonne National Laboratory; University of Connecticut; Convergent Science

1007. Stanford University

1008. University of Illinois at Chicago

1009. Research Laboratory LTE-ENPO

1010. Shanghai Jiao Tong University

1011. Shanghai Jiao Tong University
1012. **Shanghai Jiao Tong University**


1013. **MOE Key Laboratory for Power Machinery and Engineering**


1014. **The Ohio State University**


1015. **Aramco Services Company**


1016. **National Institute of Technology, Warangal, India**


1017. **U.S. Army Research Laboratory; Stanford University; AMRDEC-ADD**


1018. **Iowa State University**


1019. **General Motors; Oak Ridge National Laboratory; Lawrence Livermore National Laboratory**


1020. **Argonne National Laboratory; Purdue University; Convergent Science; University of South Carolina**


1021. **Argonne National Laboratory; Purdue University; Convergent Science**


1022. **Argonne National Laboratory; Purdue University; Convergent Science**

1023. U.S. Army Research Laboratory; University of Maryland; AMRDEC-ADD; Convergent Science

1024. Wayne State University

1025. Wayne State University

1026. University of Massachusetts; General Motors

1027. National Institute of Technology, Warangal, India

1028. University of Manitoba

1029. Convergent Science

1030. IFP Energies nouvelles; Convergent Science

1031. University of Oxford

1032. University of Michigan-Ann Arbor

1033. Purdue University; Convergent Science
1034. **Convergent Science; Aramco Services Company**  

1035. **GE Global Research Center; Convergent Science; Oak Ridge National Laboratory**  

1036. **General Motors**  

1037. **Michigan State University; Convergent Science**  

1038. **Ecole Nationale Polytechnique d’Oran**  

1039. **University of Massachusetts Lowell**  

1040. **University of Massachusetts Lowell**  

1041. **Universitat Politècnica de València**  

1042. **Aero Engine Academy of China; China Agricultural University; Tsinghua University**  

1043. **King Abdullah University of Science and Technology**  

1044. **RWTH Aachen University; University of Illinois Urbana-Champaign; Ford Research Center; Ford Research Center Aachen**  

1045. **Istituto Motori CNR; University of Rome Tor Vergata**  
1046. RWTH Aachen University; Ford Research Center Aachen

1047. University of Oxford

1048. Renault SAS

1049. Saudi Aramco; King Abdullah University of Science and Technology

1050. Aramco Research Center

1051. Michigan Technological University; Argonne National Laboratory; University of Massachusetts Dartmouth

1052. Università degli Studi di Perugia; Argonne National Laboratory; Georgia Institute of Technology; Sandia National Laboratories; Monash University; Universitat Politècnica de València

1053. Argonne National Laboratory; Sandia National Laboratories

1054. Bennett University; Convergent Science; Argonne National Laboratory

1055. Michigan Technological University

1056. Convergent Science
1057. Argonne National Laboratory

1058. Caterpillar Inc.

1059. Argonne National Laboratory; Universitat Politècnica de València; University of Connecticut; Convergent Science

1060. Stony Brook University

1061. Argonne National Laboratory; Convergent Science; Aramco Research Center

1062. King Abdullah University of Science and Technology

1063. Argonne National Laboratory; Aramco Research Center

1064. University of Massachusetts Dartmouth; Argonne National Laboratory; Michigan Technological University

1065. Carnegie Mellon University; General Motors; University of Michigan

1066. King Abdullah University of Science and Technology; Saudi Aramco

1067. Politecnico di Torino; IFP Energies nouvelles; Groupe Renault
1068. Texas Tech University; John Deere Power Systems

1069. Brandenburg University of Technology; LOGE AB

1070. Stony Brook University

1071. Indian Institute of Technology; King Abdullah University of Science and Technology

1072. Michigan Technological University; Aramco Research Center; Convergent Science

1073. Indian Institute of Technology

1074. Hyundai Motor Company

1075. Wayne State University

1076. Convergent Science

1077. General Motors; Oak Ridge National Laboratory; Lawrence Livermore National Laboratory

1078. AVIC

1079. Chiba University
1080. Argonne National Laboratory: Convergent Science

1081. Toyota Motor Corporation

1082. Southwest Research Institute

1083. Argonne National Laboratory; Gamma Technologies; Politecnico di Torino

1084. Hunan University

1085. POWERTECH Engineering; Wartsila Italia

1086. Ford Motor Company

1087. Argonne National Laboratory

1088. Indian Institute of Technology Madras

1089. Federal University of Santa Catarina; Embraco

1090. RWTH Aachen University

1091. Stony Brook University
1092. Magneti Marelli

1093. University of Rome Tor Vergata

1094. University of Illinois at Chicago

1095. Indian Institute of Technology Madras

1096. Marquette University

1097. Tianjin University; Guilin University of Aerospace Technology

1098. Tsinghua University

1099. Argonne National Laboratory

1100. Tianjin University

1101. Tianjin University

1102. Tianjin University

1103. Tsinghua University; China Agricultural University
1104. Tsinghua University

1105. VIT University

1106. Tianjin University

1107. U.S. Army Research Laboratory; NAVAIR; NASA Glenn Research Center; AMRDEC-ADD

1108. Tianjin University

1109. Shanghai Jiao Tong University

1110. West Virginia University; Tianjin University; National Research Council, Canada

1111. West Virginia University; National Research Council, Canada; Tianjin University

1112. University of Oxford; Jaguar Land Rover

1113. Argonne National Laboratory

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1128. Honda Motor Co. Ltd.  

1129. Argonne National Laboratory; Convergent Science; Aramco Research Center  

1130. Colorado School of Mines; National Renewable Energy Laboratory  

1131. YANMAR Co., Ltd.; IDAJ Co. LTD; Convergent Science  


1133. Tohoku University; Keihin Corp.  

1134. Marquette University  

1135. Brandenburg University of Technology; LOGE AB; Groupe Renault  

1136. Brandenburg University of Technology; LOGE AB; Groupe Renault  
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<th>Title</th>
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1148. Michigan Technological University

1149. Wayne State University; Delphi

1150. Wayne State University; Delphi

1151. Wayne State University; Delphi

1152. Chalmers University of Technology; LOGE AB; Brandenburg University of Technology

1153. Texas A&M University; Cameron

1154. Texas A&M University; GE Oil & Gas

1155. Universidade do Minho

1156. Prometheus Applied Technologies, LLC; Colorado State University

1157. University of Illinois at Chicago

1158. Georgia Institute of Technology

1159. Georgia Institute of Technology
1160. Stanford University; Technische Universität Darmstadt; University of Michigan

1161. Stanford University; Technische Universität Darmstadt; University of Michigan

1162. Gamma Technologies

1163. Convergent Science; LOGE AB; Caterpillar Inc.

1164. Argonne National Laboratory; University of Connecticut

1165. LiquidPiston Inc.

1166. West Virginia University; National Research Council, Canada

1167. Altronic Hoerbiger; Prometheus Applied Technologies, LLC

1168. Altronic Hoerbiger; Prometheus Applied Technologies, LLC

1169. Groupe Renault; Convergent Science

1170. Caterpillar Inc.

1171. Convergent Science; University of Duisburg-Essen; Caterpillar Inc.
1172. King Abdullah University of Science and Technology; University of Hiroshima

1173. DENSO Corporation; Japan Automobile Research Institute

1174. Argonne National Laboratory

1175. Aramco Research Center

1176. Convergent Science

1177. Convergent Science

1178. Convergent Science

1179. Argonne National Laboratory; Convergent Science

1180. Argonne National Laboratory

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1182. Argonne National Laboratory; Convergent Science
1183. Caterpillar Inc.

1184. Caterpillar Inc.

1185. University of Michigan-Ann Arbor

1186. Georgia Institute of Technology

1187. General Motors

1188. Carnegie Mellon University; Mississippi State University; Argonne National Laboratory

1189. Renault SAS

1190. GE Global Research Center; Oak Ridge National Laboratory; Convergent Science

1191. Wayne State University; US Army TARDEC

1192. Chrysler Group LLC

1193. Argonne National Laboratory; Convergent Science

1194. Universiti Kebangsaan Malaysia
1195. Rensselaer Polytechnic Institute

1196. Cummins Inc.; Argonne National Laboratory; Convergent Science

1197. Chrysler Group LLC; Argonne National Laboratory

1198. Prometheus Applied Technologies, LLC

1199. Wayne State University

1200. Weichai Power Emissions Solutions Company

1201. Michigan Technological University; Argonne National Laboratory

1202. Michigan Technological University; Nostrum Energy LLC

1203. Michigan Technological University; Nostrum Energy LLC

1204. Michigan Technological University; Nostrum Energy LLC

1205. Convergent Science; Argonne National Laboratory

1206. Aramco Research Center
1207. **Aramco Research Center**

1208. **Aramco Services Company**

1209. **Argonne National Laboratory; Michigan Technological University**

1210. **Sandia National Laboratories; Convergent Science**

1211. **Prometheus Applied Technologies, LLC**

1212. **General Motors**

1213. **General Motors R&D**

1214. **General Motors**

1215. **General Motors**

1216. **Ford Motor Company; Convergent Science; Dalian University of Technology**

1217. **Argonne National Laboratory; Convergent Science**

1218. **Argonne National Laboratory; Convergent Science**
1219. Argonne National Laboratory; Università degli Studi di Perugia; Convergent Science

1220. Argonne National Laboratory; Università degli Studi di Perugia; Convergent Science; University of Massachusetts

1221. Argonne National Laboratory; Università degli Studi di Perugia; Convergent Science; University of Massachusetts

1222. Hunan University; University of Wisconsin–Madison

1223. Tianjin University; Chongqing Changan Automobile Co., Ltd.

1224. University of California, Berkeley; Sandia National Laboratories

1225. Convergent Science; Indiana University – Purdue University Indianapolis

1226. Convergent Science

1227. Convergent Science; GE Global Research Center

1228. Technical University of Denmark; Sandia National Laboratories

1229. Mississippi State University; Argonne National Laboratory
1230. **Argonne National Laboratory; Chrysler Group LLC; Convergent Science**  

1231. **Convergent Science; North Carolina State University; Argonne National Laboratory**  

1232. **Purdue University; Argonne National Laboratory; San Diego State University**  

1233. **University of Nottingham; University of Birmingham; Tsinghua University**  

1234. **RWTH Aachen University; Complexe de Recherche Interprofessionnel en Aérothermochimie**  

1235. **Caterpillar Inc.; Southwest Research Institute**  

1236. **Prometheus Applied Technologies, LLC; Altronic Hoerbiger**  

1237. **Prometheus Applied Technologies, LLC**  

1238. **Prometheus Applied Technologies, LLC; Hoerbier; Altronic, LLC**  

1239. **Argonne National Laboratory; Aramco Research Center**  

1240. **Argonne National Laboratory; Aramco Research Center**  

1241. **Weichai Power Emissions Solutions Company; Tsinghua University**  
1242. Michigan State University

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1245. Ecole Militaire Polytechnique, Algeria; École des Mines de Nantes; Université de Boumerdes, Algeria

1246. Wayne State University; Xian Jiaotong University

1247. Mainstream Engineering Corporation; U.S. Army Tank Automotive Research Development and Engineering Center

1248. Isuzu Technical Center of America, Inc.; Convergent Science

1249. Allison Transmission India Pvt. Ltd.; Saveetha Engineering College; Madras Institute of Technology

1250. Technische Universität Wien

1251. Imperial College London; Sandia National Laboratories; Politecnico di Milano; Argonne National Laboratory

1252. Prometheus Applied Technologies, LLC; GEC Inc.

1253. Prometheus Applied Technologies, LLC; Altronic Hoerbiger
1254. Prometheus Applied Technologies, LLC

1255. Argonne National Laboratory; Convergent Science

1256. Argonne National Laboratory

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1258. University of Illinois at Chicago; Argonne National Laboratory; Convergent Science

1259. Argonne National Laboratory; University of Illinois at Chicago

1260. Argonne National Laboratory; University of Connecticut; Convergent Science

1261. Argonne National Laboratory; Convergent Science; Caterpillar Inc.

1262. Argonne National Laboratory; Politecnico di Milano

1263. University of Illinois at Chicago

1264. University of Illinois at Chicago

1265. University of Illinois at Chicago
1266. King Abdullah University of Science and Technology; Saudi Aramco

1267. King Abdullah University of Science and Technology; Saudi Aramco

1268. Sandia National Laboratories; King Abdullah University of Science and Technology; IFP Energies nouvelles; Meiji University; Politecnico di Milano; ETH Zurich; University of New South Wales

1269. Carnegie Mellon University; Pennsylvania State University

1270. University of California, Berkeley; KAUST

1271. University of Michigan; University of Wisconsin; Pennsylvania State University; Sandia National Laboratories; Technische Universität Darmstadt; General Motors

1272. Convergent Science; Argonne National Laboratory; Cummins Inc.

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1280. Convergent Science; Argonne National Laboratory; Cummins Inc.

1281. Brandenburg University of Technology; LOGE AB; Chalmers University of Technology

1282. University of Michigan; General Motors

1283. Argonne National Laboratory

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1285. Argonne National Laboratory; University of Perugia; Convergent Science

1286. Argonne National Laboratory; University of Perugia; Convergent Science
1287. Argonne National Laboratory: Convergent Science  

1288. Argonne National Laboratory  

1289. Argonne National Laboratory; Convergent Science; University of Perugia  

1290. Convergent Science  

1291. Convergent Science; Argonne National Laboratory  

1292. University of Waterloo  

1293. University of Waterloo  

1294. Indian Institute of Technology Madras  

1295. LOGE AB; Groupe Renault  

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1298. **Convergent Science; Argonne National Laboratory**

1299. **Convergent Science**

1300. **Convergent Science; Argonne National Laboratory; Lawrence Livermore National Laboratory**

1301. **Convergent Science; Lawrence Livermore National Laboratory**

1302. **Convergent Science**

1303. **Convergent Science; Cummins Inc.; Argonne National Laboratory**

1304. **Convergent Science; Cummins Inc.**

1305. **Convergent Science; Argonne National Laboratory; Sandia National Laboratories**

1306. **Convergent Science; SmartUQ**

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1308. **Aramco Research Center; Argonne National Laboratory; Convergent Science**
1309. **Argonne National Laboratory; Convergent Science; Sandia National Laboratories**

1310. **Chiba University**

1311. **Woodward, Inc.; Colorado State University**

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1313. **Volvo; Instituto Tecnológico de Aeronáutica**

1314. **Volvo; Instituto Tecnológico de Aeronáutica**

1315. **Indian Institute of Technology Bombay**

1316. **Carnegie Mellon University; Convergent Science**

1317. **Texas A&M University**

1318. **Wayne State University**

1319. **Convergent Science; Chrysler Group LLC**
1320. **Michigan State University**  

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1323. **University of Waterloo; General Motors**  

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1326. **Mainstream Engineering Corporation**  

1327. **National Institute of Technology, Warangal, India**  

1328. **National Institute of Technology, Warangal, India**  

1329. **National Institute of Technology, Warangal, India**  

1330. **IFP Energies nouvelles; Groupe Renault**  

1331. **Ford Motor Company; Chalmers University of Technology; LOGE AB; Brandenburg University of Technology**  


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1346. **Electro-Motive Diesel Inc.**

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1348. **Electro-Motive Diesel Inc.**

1349. **General Motors**

1350. **Southwest Research Institute**

1351. **Michigan Technological University; WM International Engineering**

1352. **Michigan Technological University**

1353. **MAHLE Powertrain**
1354. Woodward, Inc.  

1355. IFP Energies nouvelles; Convergent Science  

1356. Sandia National Laboratories; Lawrence Livermore National Laboratory; Massachusetts Institute of Technology  

1357. SAIC Motor Corporation Ltd  

1358. JP SCOPE, Inc.; Czero Inc.; University of Bath; Anderson Consulting  

1359. Clemson University  

1360. Indian Institute of Technology Bombay  

1361. University of Maryland  

1362. U.S. Army Research Laboratory; Convergent Science  

1363. U.S. Army Research Laboratory; U.S. Military Academy  

1364. U.S. Army Research Laboratory; Convergent Science  
1365. **University of Kansas**

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1368. **Laboratoire de Recherche en Technologie de l'Environnement; École des Mines de Nantes**

1369. **Laboratoire de Recherche en Technologie de l'Environnement; École des Mines de Nantes**

1370. **Convergent Science**

1371. **Universitat Politècnica de València; Groupe Renault**

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1374. **Università degli Studi di Perugia; Argonne National Laboratory; Convergent Science**

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1379. **Saudi Aramco; King Abdullah University of Science and Technology**  

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1383. **University of Michigan**  

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1385. **ISUZU Advanced Engineering Center Ltd.**  

1386. **Tianjin University; Tianjin Internal Combustion Engine Magnetic Motor Co., Ltd.; Chongqing Changan Automobile Co., Ltd.; Changan Automobile Engineering Institute**  

1387. **Argonne National Laboratory; General Motors R&D**  
1388. Argonne National Laboratory

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1390. Southwest Research Institute
Abidin, Z., Hoag, K., McKee, D., and Badain, N., "Port Design for Charge Motion Improvement Within the Cylinder," SAE Paper 2016-01-0600, 2016. DOI: 10.4271/2016-01-0600

1391. Indian Institute of Technology Bombay

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1400. Wayne State University; Georgia Southern University; Shanghai Jiao Tong University

1401. Georgia Southern University; Army Research Laboratory

1402. Georgia Southern University