

**ONE HUNDRED AND FOURTH AMENDMENT TO
ELSEVIER SUBSCRIPTION AGREEMENT**

WHEREAS, the parties hereto have previously entered into an agreement dated 5 February 2009 (the "Agreement") as last amended on 26 June 2013 wish to amend the Agreement as set forth in this amendment ("Amendment").

NOW, THEREFORE, in consideration of the mutual promises and covenants set forth below, and for such other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree to amend the Agreement as of the execution date below as set forth below and on Schedule 1.

Except as specifically amended hereby, all of the existing terms and conditions of the Agreement are hereby ratified. Capitalized terms used herein that are not otherwise defined shall have the meanings ascribed to them in the Agreement. To the extent any terms or conditions of the Agreement conflict with or are inconsistent with this Amendment, the terms of this Amendment shall prevail.

IN WITNESS WHEREOF, the parties have executed this Amendment by their respective, duly authorized representatives as of 1 July 2013.

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Title: *Executive Director*
[Text deleted]

**ELSEV
(Elsevier)**

Name: ✓

Title: *Managing Director*, Global Sales & Customer Marketing, Science & Technology

Amendment No.: 1-4708265261

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**ONE HUNDRED AND FOURTH AMENDMENT TO
ELSEVIER SUBSCRIPTION AGREEMENT
Schedule 1
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Subscribed Products – publisher	Access	2013
Elsevier eBooks Titles		[Text deleted]
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**Annex A to Schedule 1
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9780444504807	12th International Congress on Catalysis	
9780444986559	Acid-Base Catalysis II	
9780444425126	Adsorption and Catalysis on Oxide Surfaces: Proceedings of a Symposium, Brunel University, Uxbridge, June 28-29, 1984	
9780444828286	Adsorption and its Applications in Industry and Environmental Protection	
9780444501660	Adsorption and its Applications in Industry and Environmental Protection Vol II: Applications in Environmental Protection	
9780444501653	Adsorption and its Applications in Industry and Environmental Protection Vol.I:Applications in Industry	
9780444420879	Adsorption at the Gas-Solid and Liquid-Solid Interface	
9780444421630	Adsorption on Metal Surfaces An Integrated Approach	
9780444821799	Adsorption on New and Modified Inorganic Sorbents	
9780444820013	Advanced Zeolite Science and Applications	
9780444825742	Advances in Chemical Conversions for Mitigating Carbon Dioxide	
9780444532152	Alkene Polymerization Reactions with Transition Metal Catalysts	
9780444881830	Angle-Resolved Photoemission Theory and Current Applications	
9780444522122	Biocatalysis in Oil Refining	
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9780444429551	Catalysis 1987	
9780444892294	Catalysis An Integrated Approach to Homogeneous, Heterogeneous and Industrial Catalysis	
9780444427786	Catalysis and Automotive Pollution Control	
9780444820198	Catalysis and Automotive Pollution Control III	
9780444827951	Catalysis and Automotive Pollution Control IV	
9780444424495	Catalysis by Acids and Bases	
9780444897961	Catalysis by Metals and Alloys	
9780444820495	Catalysis by Microporous Materials	
9780444419163	Catalysis by Zeolites	
9780444424020	Catalysis on the Energy Scene	
9780444829634	Catalysis: An Integrated Approach	
9780444419200	Catalyst Deactivation	
9780444428554	Catalyst Deactivation 1987	
9780444888327	Catalyst Deactivation 1991	
9780444816825	Catalyst Deactivation 1994	
9780444826039	Catalyst Deactivation 1997	
9780444502131	Catalyst Deactivation 1999	
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Product ID	Elsevier eBooks Titles	Final Net Price 2013
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9780444828231	Experiments in Catalytic Reaction Engineering	
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9780444513540	Fischer-Tropsch Technology	
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9780444514738	Fluid Catalytic Cracking VI: Preparation and Characterization of Catalysts	
9780444530608	Fluid Catalytic Cracking VII:	
9780444890375	Fluid Catalytic Cracking: Science and Technology	
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9780444885142	Heterogeneous Catalysis and Fine Chemicals II	
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9780444895356	Natural Gas Conversion II Proceedings of the Third Natural Gas Conversion Symposium	
9780444823526	Natural Gas Conversion IV	
9780444829672	Natural Gas Conversion V	
9780444505446	Natural Gas Conversion VI	
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9780444815521	New Developments in Selective Oxidation II	
9780444894663	New Developments in Selective Oxidation by Heterogeneous Catalysis	
9780444989819	New Developments in Zeolite Science and Technology	
9780444896216	New Frontiers in Catalysis - Proceedings of the 10th International Congress on Catalysis, Budapest, 19-24 July 1992	
9780444997401	New Horizons in Catalysis	
9780444997395	New Horizons in Catalysis	
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9780444820785	Preparation of Catalysts VI	
9780444500311	Preparation of Catalysts VII	
9780444530684	Proceedings of the 15th International Zeolite Conference	
9780444506511	Proceedings of the International Conference on Colloid and Surface Science	
9780444530783	Proceedings of the Natural Gas Conversion VIII:	
9780444895561	Progress in Catalysis	
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9780444823441	Progress in Zeolite and Microporous Materials	
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9780444881298	Recent Advances in Zeolite Science	
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9780444502186	Science and Technology in Catalysis 1998	
9780444513496	Science and Technology in Catalysis 2002	
9780444536013	Scientific Bases for the Preparation of Heterogeneous Catalysts	
9780444528278	Scientific Bases for the Preparation of Heterogeneous Catalysts	
9780444511782	Scientific Bases for the Preparation of Heterogeneous Catalysts: Proceedings of the 8th International Symposium	
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9780444882424	Spectroscopic Characterization of Heterogeneous Catalysts Methods of Surface Analysis	
9780444882431	Spectroscopic Characterization of Heterogeneous Catalysts Part B: Chemisorption of Probe Molecules	
9780444823335	Spillover and Migration of Surface Species on Catalysts	
9780444504272	Spillover and Mobility of Species on Solid Surfaces	
9780444422248	Spillover of Adsorbed Species	
9780444423511	Structure and Reactivity of Modified Zeolites	
9780444874658	Structure and Reactivity of Surfaces	
9780444889423	Structure-Activity and Selectivity Relationships in Heterogeneous Catalysis	
9780444885920	Studies in Surface Science and Catalysis Volume 54	
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9780444873941	Transition Metal Oxides Surface Chemistry and Catalysis	
9780444425232	Unsteady Processes in Catalytic Reactors	
9780444421661	Vibrations at Surfaces	
9780444426314	Vibrations at Surfaces 1985	
9780444882455	Zeolite Chemistry and Catalysis	
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9780444425683	Zeolites Synthesis, Structure, Technology and Application	
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9780444986573	Zeolites and Microporous Crystals	
9780444520661	Zeolites and Ordered Mesoporous Materials: Progress and Prospects	
9780444818478	Zeolites and Related Microporous Materials: State of the Art 1994 - Proceedings of the 10th International Zeolite Conference, Garmisch-Partenkirchen, Germany, 17-22 July 1994	
9780444532985	Zeolites and related materials: Trends, targets and challenges	
9780444532978	Zeolites and related materials: Trends, targets and challenges	
9780444873835	Zeolites as Catalysts, Sorbents and Detergent Builders Applications and Innovations	
9780444821300	Zeolites: A Refined Tool for Designing Catalytic Sites	
9780444874665	Zeolites: Facts, Figures, Future Part A - Proceedings of the 8th International Zeolite Conference	